

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hyd. Reservoir	Converter	Transmission	Engine Crankcase (see pg. 1E-125)	
				w/o Filter	w/Filter
<b>CABLE LAYER</b>					
475	TCH 14.75-Gal 55.8L Total 7.5-Gal 28.3L Refill	—	TCH 7-Gal 26.5L	No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L
<b>CRAWLER TRACTORS</b>					
310, 310C	TCH 6-Gal 22.7L	—	Str. Mineral Oil (GL1) (85W140) *7.5-Qt 7.1L	Low Ash Single Grade 5.5-Qt 5.2L	6-Qt 5.6L
310E, 310F	TCH 8-Gal 30.3L	—	Str. Mineral Oil (GL1) (85W140) *7.5-Qt 7.1L	Low Ash Single Grade - Gasoline No. 1 Single Grade - Diesel 5.5-Qt 5.2L	6-Qt 5.6L
310G - After S/N 3023000	TCH 8-Gal 30.3L	—	Str. Mineral Oil (GL1) (85W140) *7.5-Qt 7.1L	Low Ash Single Grade - Gasoline No. 1 Single Grade - Diesel 5.5-Qt 5.2L	6-Qt 5.6L
350	TCH 8-Gal 30.3L	TCH 8-Qt 7.5L	Str. Mineral Oil (GL1) (85W140) *8-Qt 7.5L	No. 1 Single Grade 5.5-Qt 5.2L	6-Qt 5.6L
350B	TCH 8-Gal 30.3L	TCH 9-Qt 8.5L	Str. Mineral Oil (GL1) (85W140) *7-Qt 6.6L	No. 1 Single Grade 6-Qt 5.7L	7-Qt 6.6L
420	TCH 6 Gal 22.7L	w/Hydraulics	135H EP (85W140) *7.5-Qt 7.1L	Low Ash Single Grade 5.5-Qt 5.2L	6-Qt 5.6L

\* - For service fill, use 135H EP (80W90) (-20°F to +60°F) or 135H EP (85W140) Gear Lube (above +10°F).

## Lubricants

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Final Drive Each Side	Air Cleaner Gas	Diesel	Winch	Misc.	Model
					CABLE LAYER
135H EP (85W140) 6-Qt 5.6L	—	—	—	Gear Box 251H EP 8-Lbs 3.6kg Dual Pump Box 135H EP (85W140) 10-Qt 9.4L	475
<b>CRAWLER TRACTORS</b>					
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade 1-Pt .47L	—	135H EP (85W140) 8-Qt 7.5L	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	310, 310C
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade	No. 1 Single Grade	TCH 6-Qt 5.6L Hydraulic 135H EP (85W140) 6-Qt 5.6L Mechanical	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	310E, 310F
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade 1-Pt .47L	No. 1 Single Grade 1-Qt .94L	TCH 6-Qt 5.6L C-12 135H EP (85W140) 6-Qt 5.6L CC-9 & 12	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	310G - After S/N 3023000
135H EP (85W140) 2.5-Pt 1.1L	—	No. 1 Single Grade	Model 9 135H EP (85W140) 4-Qt 3.7L	PTO 135H EP (85W140) 1-Qt .94L	350
135H EP (85W140) 1.2-Qt 1.1L	—	No. 1 Single Grade	Model 9 135-H-EP	—	350B
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade	—	135H EP (85W140) 8-Qt 7.5L	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	420

# Lubricants

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				w/o Filter	w/Filter
<b>CRAWLER TRACTORS</b>					
420B, 420C	TCH 6-Gal 22.7L	w/Hydraulics	135H EP (85W140) *7.5-Qt 7.1L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 5.5-Qt 5.2L	6-Qt 5.6L
450	TCH 7.5-Gal 28.3L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 6-Qt 5.6L	7-Qt 6.6L
450B, 455B	TCH 8-Gal 30.3L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade w/o Turbo 6-Qt 5.7L w/Turbo 8-Qt 7.6L	7-Qt 6.6L 9-Qt 8.5L
450C, 455C	TCH 8.5-Gal 32.2L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Multi Grade —	11-Qt 10.4L
520	TCH 7-Gal 26.5L	w/Transmission	135H EP (85W140) †7.5-Qt 7.1L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L
550	TCH w/Filter 8.5-Gal 32.2L	—	TCH w/Filter 32-Qt 30.3L	No. 1 Single Grade —	11.6-Qt 11L
550E, 550G	TCH w/Filter 10.3-Gal 39L	—	TCH 32-Qt 30.3L	No. 1 Multi Grade —	11-Qt 10.4L
600	TCH 9-Gal 34L	w/Transmission	TCH 7-Gal 26.5L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 5-Qt 4.7L	6-Qt 5.6L
650	TCH w/Filter 12-Gal 45.4L	—	TCH w/Filter 32-Qt 30.3L	No. 1 Single Grade —	11-Qt 10.4L
650G	TCH w/Filter 13.6-Gal 51.5L	—	TCH w/Filter 32-Qt 30.3L	No. 1 Multi Grade —	11-Qt 10.4L

† - For service fill, use No. 1 Engine Oil SAE 30 (-20°F to +60°F) and 135H EP (85W140) Gear Lube (above +10°F).

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

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Final Drive Each Side	Air Cleaner Gas					Model
		Diesel	Winch	Misc.		
<b>CRAWLER TRACTORS</b>						
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade	No. 1 Single Grade	135H EP (85W140) 6-Qt 5.6L Hydraulic 8-Qt 7.5L Mech.	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	420B, 420C	
135H EP (85W140) 6-Qt 5.6L	Low Ash Single Grade 1-Qt .94L	No. 1 Single Grade 2.75-Pt 1.3L	135H EP (85W140) 9.5-Qt 9L Model 19 4.5-Qt 4.2L Model 9	—	450	
135H EP (85W140) 6-Qt 5.6L	—	—	Model 19 135H EP (85W140)	—	450B, 455B	
135H EP (85W140) 6-Qt 5.7L	—	No. 1 Multi Grade	Model 19 135H EP (85W140)	Brake Actuator Circuit Crawler Brake Oil	450C, 455C	
135H EP (85W140) 2.5-Pt 1.1L	Low Ash Single Grade	No. 1 Single Grade 1-Qt .94L	135H EP (85W140) 8-Qt 7.5L	PTO & Belt Pulley 135H EP (85W140) 1-Qt .94L	520	
135H EP (85W140) 6-Qt 5.7L	—	No. 1 Single Grade	—	—	550	
135H EP (85W140) 6-Qt 5.7L	—	No. 1 Multi Grade	—	—	550E, 550G	
135H EP (85W140) 4-Qt 3.7L	Low Ash Single Grade 1-Qt .94L	No. 1 Single Grade	—	—	600	
135H EP (85W140) 7.5-Qt 7.1L	—	No. 1 Single Grade	—	—	650	
135H EP (85W140) 7.5-Qt 7.1L	—	—	—	—	650G	

# Lubricants

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Model	Hyd. Reservoir	Converter	Transmission	Engine Crankcase (see pg. 1E-125)	
				w/o Filter	w/Filter
<b>CRAWLER TRACTORS</b>					
750					
Prior to S/N 7070351	TCH 14-Gal 53L	w/Transmission	TCH 8-Gal 30.2L	No. 1 Single Grade 10-Qt 9.4L 12-Qt 11.3L	
S/N 7070351 & After	TCH 8.5-Gal 32.2L	w/Transmission	TCH 8-Gal 30.2L	No. 1 Single Grade 10-Qt 9.4L 12-Qt 11.3L	
800 - S/N 7081201 & After	TCH 24-Gal 90.8L Loader 22-Gal 83.2L Dozer	w/Transmission	TCH 11.5-Gal 43.5L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 10-Qt 9.4L 11-Qt 10.4L	
850					
Prior to S/N 7073469	TCH 8.5-Gal 32.2L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade 10-Qt 9.4L 12-Qt 11.3L	
S/N 7073469 & After	TCH 8.5-Gal 32.2L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade 11-Qt 10.4L 12-Qt 11.3L	
850B	TCH 12-Gal 45.4L Refill	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade 9-Qt 8.5L 10-Qt 9.5L	
850C, 855C, 850D, 855D	TCH 12-Gal 45.4L	w/Transmission	TCH 8-Gal 30.3L	No. 1 Single Grade 850C, 855C 9-Qt 8.5L 10-Qt 9.5L No. 1 Multi Grade 850D, 855D — 16-Qt 15.2L	
850E, 855E	TCH w/Filter 12-Gal 45.4L	—	TCH 18-Qt 17L	No. 1 Multi Grade — 16-Qt 15.1L	
850G	TCH w/Filter change 13.6-Gal 51.5L Refill	—	TCH w/Filter change 32-Qt 30.3L Refill	No. 1 Multi Grade — 16-Qt 15.2L	
1000	TCH 24-Gal 90.8L Loader 22-Gal 83.2L Dozer	w/Transmission	TCH 11.5-Gal 43.5L	No. 1 Single Grade 10-Qt 9.4L 11-Qt 10.4L	
1000D	TCH 16-Gal 60.5L	w/Transmission	TCH 13-Gal 9.2L	No. 1 Single Grade 10.5-Qt 9.9L 11.5-Qt 10.8L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

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Final Drive Each Side	Air Cleaner Gas	Diesel	Winch	Misc.	Model
<b>CRAWLER TRACTORS</b>					
135H EP (85W140) 3-Qt 2.8L	—	No. 1 Single Grade 1.75-Qt 1.6L	—	—	750 Prior to S/N 7070351
135H EP (85W140) 7-Qt 6.6L	—	—	—	—	S/N 7070351 & After
135H EP (85W140) 8-Qt 7.5L	Low Ash Single Grade	No. 1 Single Grade 1-Qt .94L	—	—	800 - S/N 7081201 & After
135H EP (85W140) 7-Qt 6.6L	—	No. 1 Single Grade	135H EP (85W140) 17.5-Qt 16.5L	—	850 Prior to S/N 7073469
135H EP (85W140) 4-Qt 3.7L	—	No. 1 Single Grade	135H EP (85W140) 9.5-Qt 9L	—	S/N 7073469 & After
135H EP (85W140) 4-Qt 3.7L	—	No. 1 Single Grade	135H EP (85W140) 9.5-Qt 9L	—	850B
135H EP (85W140) 7.5-Qt 7.1L	—	No. 1 Single Grade (850, 855C) No. 1 Multi Grade (850D, 855D)	Model 19 135H EP (85W140)	Brake Actuator Circuit Crawler Brake Oil	850C, 855C, 850D, 855D
135H EP (85W140) 7.5-Qt 7.1L	—	No. 1 Multi Grade	—	—	850E, 855E
135H EP (85W140) 7.5-Qt 7.1L	—	—	—	—	850G
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Single Grade	—	—	1000
135H EP (85W140) 6-Qt 5.6L	—	No. 1 Single Grade	—	—	1000D

# Lubricants

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Model	Hyd. Reservoir	Converter	Transmission	Engine Crankcase (see pg. 1E-125)	
				w/o Filter	w/Filter
<b>CRAWLER TRACTORS</b>					
1150					
S/N 7106801 - 7110300	TCH 14-Gal 53L	w/Transmission	TCH 13-Gal 49.2L	No. 1 Single Grade 13-Qt 12.3L 15-Qt 14.2L	
S/N 7110301 & After	TCH 14-Gal 53L	w/Transmission	TCH 13-Gal 49.2L	No. 1 Single Grade 14-Qt 13.2L 15-Qt 14.2L	
1150B	TCH 15-Gal 56.7L	w/Transmission	TCH Refill 14-Gal 53L Total System 15-Gal 57L	No. 1 Single Grade 14-Qt 13.2L 15-Qt 14.2L	
1150C, 1150D, 1155D	TCH 15-Gal 57L	w/Transmission	TCH Refill 14-Gal 53L Total System 15-Gal 57L	No. 1 Single Grade 1150C 14-Qt 13.2L 15-Qt 14.2L 1150D, 1155D 26-Qt 24.6L 27-Qt 25.5L	
1150E, 1155E	TCH 15-Gal 57L Refill	w/Transmission	TCH 14-Gal 53L Refill w/Filter 13.3-Gal 50L Refill w/o Filter	No. 1 Multi Grade 1150E Dozer — 22-Qt 20.8L 1155E Loader — 16-Qt 15L	
1150G	TCH 17-Gal 64.4L Capacity w/Filter Change 22.5-Gal 85.3L Complete System Refill	w/Transmission	TCH 15-Gal 56.8L Refill w/Filter Change 14-Gal 53L Transmission & Filter 13.25-Gal 52.2L Transmission only	No. 1 Multi Grade (10W30) — 16-Qt 15L	
1450	TCH 22-Gal 83.2L	w/Transmission	TCH Refill 11.5-Gal 43.5L Total System 15-Gal 57L	No. 1 Single Grade 14-Qt 13.2L 15-Qt 14.2L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

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Final Drive Each Side	Air Cleaner Gas	Diesel	Winch	Misc.	Model
<b>CRAWLER TRACTORS</b>					
135H EP (85W140) 6-Qt 5.6L	—	No. 1 Single Grade	135H EP (85W140) 19-Qt 18L	—	1150 S/N 7106801 - 7110300
135H EP (85W140) 9-Qt 8.5L	—	No. 1 Single Grade	135H EP (85W140) 19-Qt 18L	—	S/N 7110301 & After
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Single Grade	TCH 7.5-Gal 28.4L	—	1150B
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Single Grade	Winch Housing TCH 11.5-Gal 44L Winch Gear Box 2-Gal 1.9L	—	1150C, 1150D, 1155D
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Multi Grade	TCH 14-Gal 53L	—	1150E, 1155E
135HEP (85W140) 8-Qt 7.5L	—	—	—	—	1150G
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Single Grade	TCH 9.5-Gal 36L	—	1450

# Lubricants

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Model	Hyd. Reservoir	Converter	Transmission	Engine Crankcase (see pg. 1E-125)	
				w/o Filter	w/Filter
<b>CRAWLER TRACTORS</b>					
1450B, 1455B Loader - Prior to S/N 8382259	TCH 30-Gal 113.4L Total System 17.5-Gal 66L Refill	w/Transmission	TCH 15-Gal 56.8L Total System 11.5-Gal 43.5L Refill	No. 1 Single Grade 14-Qt 13.2L 17-Qt 16.1L High Capacity 24-Qt 22.7L 28-Qt 26.5L	
1450B Dozer- S/N 8382259 & After	TCH 22-Gal 83.3L Total System 17.5-Gal 66L Refill	w/Transmission	TCH 15-Gal 56.8L Total System 11.5-Gal 43.5L Refill	No. 1 Single Grade 14-Qt 13.2L 17-Qt 16.1L High Capacity 24-Qt 22.7L 28-Qt 26.5L	
1550	TCH 20.7-Gal 78.3L Refill	w/Transmission	TCH 14.7-Gal 55.6L Refill	No. 1 Multi Grade — 22-Qt 20.8L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

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Final Drive Each Side	Air Cleaner Gas	Diesel	Winch	Misc.	Model
<b>CRAWLER TRACTORS</b>					
135H EP (85W140) 8-Qt 7.5L	—	No. 1 Single Grade	Model 60 TCH 39-Qt 36.9L	—	1450B, 1455B Loader -Prior to S/N 8382259
135H EP (85W140) 15-Qt 14.2L	—	No. 1 Single Grade	Model 60 TCH 39-Qt 36.9L	—	1450B Dozer- S/N 8382259 & After
135H EP (85W140) 15-Qt 14.2L	—	No. 1 Multi Grade	—	No. 1 Multi Grade Pump Drive Housing 4-Qt 3.8L	1550

# Lubricants

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Model	Hydraulic Reservoir	Converter	Transmission
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
40 Crawler	Hy-Tran Ultra 55-Gal 208L Total System 25-Gal 95L Tank	—	—
40 Rubber Tire, 40 Logger	Hy-Tran Ultra 59-Gal 223L Total System 18.7-Gal 71L Tank	—	Hy-Tran Ultra Transmission & Converter 21-Qt 20L Type C2-C3
40 Feller Buncher Logger	Hy-Tran Ultra 53-Gal 201L Total System 18-Gal 68L Tank	—	—
45, 45 Logger	Hy-Tran Ultra 65-Gal 246L Total System 33.4-Gal 126L Tank	—	Hy-Tran Ultra Transmission & Converter 26-Qt 24.6L
50 Crawler	Hy-Tran Ultra 65-Gal 246L Total System 25-Gal 95L Tank	—	—
125B	Hydraulic Excavator Fluid 85- Gal 320L Total System 58-Gal 220L Tank	—	—
160	Hydraulic Excavator Fluid 105.7-Gal 400L Total System 79.3-Gal 300L Tank	—	—
170B	Hydraulic Excavator Fluid 105.6-Gal 400L Total System 79-Gal 300L Tank	—	—
170C	Hydraulic Excavator Fluid 105.6-Gal 400L Total System 79-Gal 300L Tank	—	—

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Engine Crankcase (pg. 1E-125) w/o Filter	w/Filter	Final Drive Each Side	Miscellaneous	Model
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21.8L  16-Qt 15.1L	135H EP (85W140) 14-Qt 13.2L	135H EP (85W140) Swing Reducer 15-Pt 7.1L	40 Crawler
No. 1 Single Grade 12-Qt 11L Detroit Engine 4-53	14-Qt 12.9L	135H EP (85W140) Planetary Hubs 6.5-Pt 3.1L Differential 4-Gal 15.1L	135H EP (85W140) Swing Reducer 11-Qt 10.4L Accelerator Circuit DOT3 Brake Fluid	40 Rubber Tire, 40 Logger
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21L  16-Qt 15.1L	135H EP (85W140) 14-Qt 13.2L	135H EP (85W140) Swing Reducer 15-Pt 7.1L	40 Feller Buncher Logger
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21L  16-Qt 15.1L	135H EP (85W140) Planetary Hubs 6.5-Pt 3.1L Differential 4-Gal 15.1L	135H EP (85W140) Swing Reducer 11-Qt 10.4L Accelerator Circuit DOT3 Brake Fluid	45, 45 Logger
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 17-Qt 16L Detroit Engine 6V-53	23-Qt 21L  19-Qt 18L	135H EP (85W140) 14-Qt 13.2L	135H EP (85W140) Swing Reducer 15-Pt 7.1L	50 Crawler
No. 1 Single Grade 18-5-Qt 17.5L	19.5-Qt 18.5L	135H EP (85W140) 2.1-Qt 2L	—	125B
No. 1 Single Grade 18-Qt 17L	—	135H EP (85W140) CK Models 13.7-Qt 13L CL Models 15.8-Qt 15L	—	160
No. 1 Single Grade 18-Qt 17L	19-Qt 18L	135H EP (85W140) 5.3-Qt 5L	—	170B
No. 1 Single Grade 19.1-Qt 18L	24-Qt 22.5L	135H EP (85W140) 5.3-Qt 5L	—	170C

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Model	Hydraulic Reservoir	Converter	Transmission
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
220	Hydraulic Excavator Fluid 148-Gal 560L Total System 105.7-Gal 400L Tank	—	—
220B	Hydraulic Excavator Fluid 148-Gal 560L Total System 106-Gal 400L Tank	—	—
300	Hydraulic Excavator Fluid 264.2-Gal 1000L Total System 153.2-Gal 580L Tank	—	—
400	Hydraulic Excavator Fluid 317.1-Gal 1200L Total System 198.2-Gal 750L Tank	—	—
600	Hydraulic Excavator Fluid 422.8-Gal 1600L Total System 290.7-Gal 1100L Tank	—	—
688			
Prior to S/N 11601	Hydraulic Excavator Fluid 34.3-Gal 130L Total System 21.1-Gal 80L Tank	—	—
S/N 11601 & After	Hydraulic Excavator Fluid 40.9-Gal 155L Total System 26.3-Gal 100L Tank	—	—
880	Hy-Tran Ultra 43-Gal 162.7L Total System 18-Gal 68.1L Tank	—	—
880B	Hy-Tran Ultra 43-Gal 162.7L Total System 18.7-Gal 71L Tank	—	—
880C, 880D	Hy-Tran Ultra 43-Gal 162.7L Total System 19.7-Gal 75L Tank	—	—

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Engine Crankcase (pg. 1E-125)		Final Drive Each Side	Miscellaneous	Model
w/o Filter	w/Filter			
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Single Grade 21.2-Qt 20L	—	135H EP (85W140) All Models 14.8-Qt 14L	—	220
No. 1 Single Grade 19-Qt 18L	21-Qt 20L	135H EP (85W140) 18-Qt 17L	—	220B
No. 1 Single Grade 23.2-Qt 22L	—	135H EP (85W140) All Models 15.8-Qt 15L	—	300
No. 1 Single Grade 23.2-Qt 22L	—	135H EP (85W140) All Models 22.2-Qt 21L	—	400
No. 1 Single Grade - Each Engine 23.2-Qt 22L	—	135H EP (85W140) 26.4-Qt 25L	—	600
No. 1 Multi Grade —	11-Qt 10.5L	135H EP (85W140) 1.76-Qt 1.7L	135H EP (85W140) Swing Reducer 1.91-Qt 1.85L Each	688 Prior to S/N 11601
No. 1 Multi Grade 10-Qt 9.5L	11-Qt 10.5L	135H EP (85W140) 1.6-Qt 1.5L	135H EP (85W140) Swing Reducer 3.7-Qt 3.5L Each	S/N 11601 & After
No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L	135H EP (85W140) 8.5-Qt 8L	135H EP (85W140) Swing Gear Box 8.5-Qt 8L	880
No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L	135H EP (85W140) 8.5-Qt 8L	135H EP (85W140) Swing Gear Box 11-Qt 10.4L	880B
No. 1 Single Grade Model 880C 19-Qt 18L Model 880D —	21-Qt 19.9L  17-Qt 16L	135H EP (85W140) 8.5-Qt 8L	135H EP (85W140) Swing Reducer 11-Qt 10.4L	880C, 880D

# Lubricants

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<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
880R	Hy-Tran Ultra 63-Gal 236L Total System 18.7-Gal 71L Tank	Hy-Tran Ultra 8-Qt 7.6L Refill	Drop Box 135H EP (85W140) 4-Qt 3.7L
888			
Prior to S/N 15401	Hydraulic Excavator Fluid 46-Gal 175L Total System 26.4-Gal 100L Tank	—	—
S/N 15401 & After	Hydraulic Excavator Fluid 40.9-Gal 155L Total System 34.3-Gal 130L Tank	—	—
980	Hy-Tran Ultra 50-Gal 189.2L Total System 18-Gal 68.1L Tank	—	—
980B	Hy-Tran Ultra 23-Gal 87L Tank	—	—
1000, 1000B	Hydraulic Excavator Fluid 951.3-Gal 3600L Total System 494.2-Gal 1870L Tank	—	—
1080	Hy-Tran Ultra 55-Gal 208L Total System 25-Gal 95L Tank	—	—
1080B	Hy-Tran Ultra 55-Gal 208L Total System 25-Gal 95L Tank	—	—
1085, 1086 Logger	Hy-Tran Ultra 59-Gal 223L Total System 18.7-Gal 70.8L Tank	—	Hy-Tran Ultra 21-Qt 20L

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Final Drive	Miscellaneous	Model
w/o Filter	w/Filter	Each Side		
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L	Differential 135H EP (85W140) 3-Gal 11L Planetary Hubs 1-Gal 3.8L	135H EP (85W140) Swing Gear Box 5.5-Qt 5.2L	880R
No. 1 Multi Grade —	16-Qt 15.4L	135H EP (85W140) 1.6-Qt 1.5L	135H EP (85W140) Swing Reducer 3.7-Qt 3.5L Each	888 Prior to S/N 15401
No. 1 Multi Grade 15-Qt 14.4L	16-Qt 15.4L	135H EP (85W140) 1.76-Qt 1.7L	135H EP (85W140) Swing Reducer 3.7-Qt 3.5L Each	S/N 15401 & After
No. 1 Single Grade 15-Qt 14.1L	17-Qt 16L	135H EP (85W140) 8.5-Qt 8L	135H EP (85W140) Swing Gear Box 5.5-Qt 5.2L	980
No. 1 Single Grade 15-Qt 14.1L	17-Qt 16L	135H EP (85W140) 14-Qt 13.2L	135H EP (85W140) Swing Gear Box 11-Qt 10.4L	980B
No. 1 Single Grade - Each Engine 23.2-Qt 22L	—	135H EP (80W90) 74-Qt 70L Each Side	—	1000, 1000B
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21.8L 16-Qt 15.4L	135H EP (85W140) 12-Qt 11.4L	135H EP (85W140) Swing Reducer 17-Qt 16.1L	1080
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine	23-Qt 21.8L 16-Qt 15.4L	135H EP (85W140) 21.5-Qt 20.3L	135H EP (85W140) Swing Gear Box 17-Qt 16.1L	1080B
No. 1 Single Grade 12-Qt 11L Detroit Engine 4-53	14-Qt 12.9L	135H EP (85W140) Planetary Hubs 6.5-Pt 3.1L Differential 4-Gal 15.1L	135H EP (85W140) Swing Reducer 11-Qt 10.4L Accelerator Circuit DOT3 Brake Fluid	1085, 1086 Logger

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

NOTE! This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Converter	Transmission
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
1085B, 1086B Logger	Hy-Tran Ultra 59-Gal 223L Total System 18.7-Gal 70.8L Tank	—	Hy-Tran Ultra C2-C3 21-Qt 20L
1085C	Hy-Tran Ultra w/Filter 36-Gal 136L Refill Capacity	—	Hy-Tran Ultra w/Filter 22.5-Qt 21.3L Refill Capacity
1088	Hydraulic Excavator Fluid 55.4-Gal 210L Total System 34.3-Gal 130L Tank	—	—
1187 Logger	Hy-Tran Ultra 55-Gal 208L Total System 25.3-Gal 95.7L Tank	—	—
1187B Logger	Hy-Tran Ultra 55-Gal 208L Total System 25.3-Gal 95.7L Tank	—	—
1187C Logger	Hy-Tran Ultra 55-Gal 208L Total System 25-Gal 95L Tank	—	—
1280	Hy-Tran Ultra 65-Gal 246L Total System 25-Gal 95L Tank	—	—
1280B	Hy-Tran Ultra 65-Gal 246L Total System 25-Gal 95L Tank	—	—

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Final Drive Each Side	Miscellaneous	Model
w/o Filter	w/Filter			
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Single Grade 15-Qt 14.2L	17-Qt 16.1L	Differential Front & Rear 135H EP (85W140) 4-Gal 15.1 Planetary Hubs (ea.) 135H EP (85W140) 6.5-Pt 3.1L	135H EP (85W140) Swing Gear Box 14-Pt 6.6L Reservoir 3-Pt 1.4L Accelerator Circuit DOT3 Brake Fluid	1085B, 1086B Logger
No. 1 Multi Grade —	17-Qt 16.1L	135H EP (85W140) Differential Front 16.5-Qt 15.6L Rear 15.5-Qt 14.7L Planetary Ends (ea.) 3.5-Pt 1.7L	135H EP (85W140) Swing Gear Box 14-Pt 6.6L Reservoir 3-Pt 1.4L Accelerator Circuit Crawler Brake Oil	1085C
No. 1 Multi Grade 15-Qt 14.4L	16-Qt 15.4L	135H EP (85W140) Travel Reducer Gear 2.1-Qt 2L	135H EP (85W140) Swing Reducer 3.7-Qt 3.5L Each	1088
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21.8L 16-Qt 15.1L	135H EP (85W140) 12-Qt 11.4L	135H EP (85W140) Swing Reducer 17-Qt 16.1L Reservoir 3-Pt 1.4L	1187 Logger
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 18-Qt 17L Detroit Engine 4-71	20-Qt 19.9L	135H EP (85W140) 21.5-Qt 20.3L	135H EP (85W140) Swing Gear Box 17-Qt 16.1L Reservoir 3-Pt 1.4L	1187B Logger
No. 1 Multi Grade —	32-Qt 30.2L	135H EP (85W140) 16.5-Qt 15.6L	135H EP (85W140) Swing Gear Box 17-Qt 16.1L	1187C Logger
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 17-Qt 16L Detroit Engine 6V-53	23-Qt 21L 19-Qt 18L	135H EP (85W140) 14-Qt 13.2L	135H EP (85W140) Swing Reducer 15-Pt 7.1L	1280
No. 1 Single Grade 24-Qt 22.7L Case 504BDT Engine Detroit Engine 6V-53	28-Qt 26.5L	135H EP (85W140) 16-Qt 15.6L	135H EP (85W140) Swing Reducer 17-Qt 16.1L	1280B

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Converter	Transmission
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
1285, 1286 Logger	Hy-Tran Ultra 65-Gal 246L Total System 33.4-Gal 126L Tank	—	Hy-Tran Ultra Transmission & Converter 26-Qt 24.6L
9007B	Hy-Tran Ultra* 25-Gal 95L Total System 14.8-Gal 56L Refill Tank	—	—
9010	Hy-Tran Ultra* 41.5-Gal 156L Total System 21.9-Gal 83L Tank	—	—
9010B	Hy-Tran Ultra* 33-Gal 124L Total System 19-Gal 73L Refill Tank	—	—
9020	Hy-Tran Ultra* 44.9-Gal 170L Total System 21.9-Gal 83L Tank	—	—
9020B	Hy-Tran Ultra* 37.5-Gal 142L Total System 19.3-Gal 73L Refill Tank	—	—
9030	Hy-Tran Ultra* 61.6-Gal 233L Total System 32.5-Gal 123L Tank	—	—

\* - Case AW46 Hydraulic Fluid can also be used.

9000 Series, Models A & B Hydraulic Fluid (**Important!**) The operators' manuals for these machines list four (4) hydraulic fluids that can be used, depending on the temperature range. The preferred fluid for most of the continental U.S. and Southern Canada is Hy-Tran Ultra (MS1209). The other three (3) oils can be used, depending on the ambient temperature range listed in the operators' manuals. The units are shipped with ISO 46 (very similar to Case AW Hydraulic Fluid). Case AW Fluid, MS1216, can be used but is a low-cost alternative to Hy-Tran Ultra and has 15°F less temperature range on the low side, which, in colder temperatures is not recommended. For low temperature applications in 9000 Series Excavators, Low Temperature Hy-Tran Ultra is recommended and is best suited for temperature ranges from -40°C to +50°C.

The preferred oil, and most expensive, is Case Hydraulic Excavator Fluid, Grade NT, MS1230, which is the blue blood/smurf oil required for all Poclain/88 Series Excavators. This oil in most applications is overkill for the 9000 Series Excavators. **DO NOT mix Hydraulic Excavator Fluid (MS1230) with the other oils, ADDITIVE DROPOUT CAN OCCUR. It is acceptable to mix Hy-Tran Ultra and AW46 and the factory fill oils.**

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Final Drive Each Side	Miscellaneous	Model
w/o Filter	w/Filter			
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Single Grade 19-Qt 18L Case 504BDT Engine 14-Qt 13.2L Detroit Engine 4-71	23-Qt 21.8L  16-Qt 15.1L	135H EP (85W140) Planetary Hubs 6.5-Pt 3.1L Differential 4-Gal 15.1L	135H EP (85W140) Swing Reducer 11-Qt 10.4L	1285, 1286 Logger
No. 1 Multi Grade —	1.8-Gal 6.8L	135H EP (80W90) 1.8-Pt 1.7L Gear Box	—	9007B
No. 1 Multi Grade —	11.6-Qt 11L	135H EP (85W140) 2.8-Qt 2.5L	135H EP (85W140) Swing Gear Box 1.8-Qt 1.7L	9010
No. 1 Multi Grade —	11-Qt 10.4L	135H EP (85W140) 3.2-Qt 3L	135H EP (85W140) Swing Gear Box 2.3-Qt 2.2L	9010B
No. 1 Multi Grade —	11-Qt 10.4L	135H EP (85W140) 3.2-Qt 3L	135H EP (85W140) Swing Gear Box 6.4-Qt 6L	9020
No. 1 Multi Grade —	11-Qt 10.4L	135H EP (85W140) 3.2-Qt 3L	135H EP (85W140) Swing Gear Box 5.3-Qt 5L	9020B
No. 1 Multi Grade —	16-Qt 15.1L	135H EP (85W140) 6-Qt 5.6L	135H EP (85W140) Swing Gear Box 6.3-Qt 6L	9030

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Converter	Transmission
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>			
9030B	Hy-Tran Ultra* 54-Gal 203L Total System 31.7-Gal 120L Tank	—	—
9040	Hy-Tran Ultra* 92.5-Gal 350L Total System 43.1-Gal 163L Tank	—	—
9040B	Hy-Tran Ultra* 57-Gal 216L Total System 32.7-Gal 120L Tank	—	—
9045B	Hy-Tran Ultra* 59-Gal 224L Total System 31.7-Gal 120L Tank	—	—
9050	Hy-Tran Ultra* 84.5-Gal 320L Tank	—	—
9050B	Hy-Tran Ultra* 85-Gal 320L Total System 40-Gal 153L Tank	—	—
9060	Hy-Tran Ultra* 118.9-Gal 450L Total System 55.5-Gal 210L Tank	—	—
9060B	Hy-Tran Ultra* 55.5-Gal 210L Tank	—	—

\* - Case AW46 Hydraulic Fluid can also be used.

9000 Series, Models A & B Hydraulic Fluid (**Important!**) The operators' manuals for these machines list four (4) hydraulic fluids that can be used, depending on the temperature range. The preferred fluid for most of the continental U.S. and Southern Canada is Hy-Tran Ultra (MS1209). The other three (3) oils can be used, depending on the ambient temperature range listed in the operators' manuals. The units are shipped with ISO 46 (very similar to Case AW Hydraulic Fluid). Case AW Fluid, MS1216, can be used but is a low-cost alternative to Hy-Tran Ultra and has 15°F less temperature range on the low side, which, in colder temperatures is not recommended. For low temperature applications in 9000 Series Excavators, Low Temperature Hy-Tran Ultra is recommended and is best suited for temperature ranges from -40°C to +50°C.

The preferred oil, and most expensive, is Case Hydraulic Excavator Fluid, Grade NT, MS1230, which is the blue blood/smurf oil required for all Poclain/88 Series Excavators. This oil in most applications is overkill for the 9000 Series Excavators. **DO NOT mix Hydraulic Excavator Fluid (MS1230) with the other oils, ADDITIVE DROPOUT CAN OCCUR. It is acceptable to mix Hy-Tran Ultra and AW46 and the factory fill oils.**

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Final Drive	Miscellaneous	Model
w/o Filter	w/Filter	Each Side		
<b>EXCAVATORS - RUBBER TIRE AND CRAWLER</b>				
No. 1 Multi Grade —	16-Qt 15.1L	135H EP (85W140) 5-Qt 4.7L	135H EP (85W140) Swing Gear Box 5.3-Qt 5L	9030B
No. 1 Multi Grade —	23-Qt 21.8L	135H EP (85W140) 3.5-Qt 3.3L	135H EP (85W140) Swing Gear Box 11.6-Qt 11L	9040
No. 1 Multi Grade —	23.7-Qt 22L	135H EP (85W140) 13-Gal 4.7L	135H EP (85W140) Swing Gear Box 1.6-Gal 6L	9040B
No. 1 Multi Grade —	24.5-Qt 23.2L	135HEP (85W140) 5-Qt 4.7L	135HEP (85W140) Swing Gear Box 6.3-Qt 6L	9045B
No. 1 Multi Grade —	31-Qt 29.3L	135H EP (85W140) 9-Qt 8.5L	135H EP (85W140) Swing Gear Box 13.2-Qt 12.5L	9050
No. 1 Multi Grade —	31-Qt 29.3L	135HEP (85W140) 1.8-Gal 7L	135HEP (85W140) Swing Gear Box 3.8-Gal 14.5L	9050B
No. 1 Multi Grade —	31-Qt 29.3L	135H EP (85W140) 1.8-Gal 7L	135H EP (85W140) Swing Gear Box 5.5-Gal 21L	9060
No. 1 Multi Grade —	31-Qt 29.3L	135H EP (85W140) 1.8-Gal 7L	135H EP (85W140) Swing Gear Box 5.5-Gal 21L	9060B

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Converter	Torque Tube
<b>FORKLIFTS</b>				
M3B Crawler	Hy-Tran Ultra 7-Gal 26.5L	—	—	—
M420	Hy-Tran Ultra 8-Gal 30.2L	Hy-Tran Ultra 1-Qt .94L	—	Hy-Tran Ultra 4-Gal 15.1L
310B	Hy-Tran Ultra 8-Gal 30.2L	Hy-Tran Ultra 1-Qt .94L	w/Triple Range	Hy-Tran Ultra 3-Gal 11.3L
430CK	Hy-Tran Ultra 8-Gal 30.2L	Hy-Tran Ultra 1-Qt .94L	w/Triple Range	Hy-Tran Ultra 4-Gal 15.1L
530CK	Hy-Tran Ultra 10-Gal 37.8L	Hy-Tran Ultra 1-Qt .94L	w/Shuttle	Hy-Tran Ultra 4-Gal 15.1L
580CK	Hy-Tran Ultra 10-Gal 37.8L	Hy-Tran Ultra 1-Qt .94L	—	Hy-Tran Ultra 4-Gal 15.1L
580B	Hy-Tran Ultra 14-Gal 53L	Hy-Tran Ultra 1-Qt .94L	w/Transmission	Hy-Tran Ultra 10.5-Gal 39.7L
584B, 585B, 586B	Hy-Tran Ultra 14-Gal 53L Refill 15-Gal 56.7L System	Hy-Tran Ultra 1-Qt .94L	w/Transmission	Hy-Tran Ultra 10.5-Gal 39.7L
584C, 585C, 586C, 584D, 585D, 586D	Hy-Tran Ultra 13.25-Gal 49.8L Refill (Add 1.25-Qt w/Filter change) 15.25-Gal 59.3L Total System	Hy-Tran Ultra 1-Qt .94L Reservoir Refill	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle	Hy-Tran Ultra 2-Qt 1.9L Mech. Shuttle
584E, 585E, 586E	Hy-Tran Ultra 15.25-Gal 57.3L Total System 13.6-Gal 51.5L w/Filter change 13.3-Gal 50L w/o Filter change Refill Capacity	—	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle	—

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Transmission	Miscellaneous	Model
w/o Filter	w/Filter			
<b>FORKLIFTS</b>				
Low Ash Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 8-Qt 7.5L	135H EP (85W140) Final Drive 5-Pt 2.3L	M3B Crawler
No. 1 Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 13-Qt 12.3L	—	M420
No. 1 Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 6-Gal 22.7L	—	310B
No. 1 Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 17-Qt 16L	—	430CK
Low Ash Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 17-Qt 16L	—	530CK
Low Ash Single Grade - Gasoline No. 1 Single Grade - Diesel 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 17-Qt 16L	—	580CK
No. 1 Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 17-Qt 16L	—	580B
No. 1 Single Grade 4-Qt 3.7L	5-Qt 4.7L	135H EP (85W140) 17-Qt 16L	—	584B, 585B, 586B
No. 1 Single Grade 6-Qt 5.7L	7-Qt 6.6L	135H EP (85W140) 20-Qt 19L	—	584C, 585C, 586C, 584D, 585D, 586D
No. 1 Multi Grade —	11-Qt 10.4L	135H EP (85W140) 20-Qt 19L 4-Sp. Transaxle	135H EP (85W140) Rear Drive Axle Center Bowl 7-Qt 6.6L Planetary Ends (ea.) 1.5-Qt 1.4L Transfer Case 1-Pt .5L	584E, 585E, 586E

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

NOTE! This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Converter	Torque Tube
<b>FORKLIFTS</b>				
585G, 586G, 588G	Hy-Tran Ultra 72-Qt 68.1L Total System 58-Qt 54.9L w/Filter change 56-Qt 53L w/o Filter change Refill Capacity	—	—	—
686G, 686GXR Handler	Hy-Tran Ultra 40-Gal 151L	—	—	—
689G Handler	Hy-Tran Ultra 27.5-Gal 104.5L	—	—	—

Model	Engine Crankcase	Hydraulic System
<b>HORIZONTAL DIRECTIONAL DRILLING MACHINES</b>		
200TX, 400TX	No. 1 Multi Grade 6-Qt 5.7L	Hy-Tran Ultra Reservoir 22-Gal 83.3L
1500TX	—	Hy-Tran Ultra Reservoir 22-Gal 83.3L
6010 Turbo	No. 1 Multi Grade 9-Qt 8.4L	Hy-Tran Ultra Reservoir 21.5-Gal 81.3L

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Engine Crankcase (pg. 1E-125)		Transmission	Miscellaneous	Model
w/o Filter	w/Filter			
<b>FORKLIFTS</b>				
No. 1 Multi Grade 10.6-Qt 10L	11.6-Qt 11L	Hy-Tran Ultra 2WD 19-Qt 18L Total System 16.9-Qt 16L Refill Capacity 4WD 22-Qt 20.8L Total System 19.5-Qt 18.5L Refill Capacity	Hy-Tran Ultra Front Drive Center Bowl 15- Qt 14.2L Planetary Ends (ea.) 1.6-Qt 1.5L Rear Drive - 4WD Center Bowl 5.8-Qt 5.5L Planetary Ends (ea.) .7-Qt .7L	585G, 586G, 588G
No. 1 Multi Grade — w/Turbocharged Engine —	10-Qt 9.5L 11.6-Qt 11L	Hy-Tran Ultra 12-Qt 11.3L	135HEP (85W140) Front and Rear Axle 7-Qt 6.6L Planetary Wheel Ends (Each 1-Qt .95L	686G, 686GXR Handler
No. 1 Multi Grade —	9-Qt 8.5L	Hy-Tran Ultra 18.4-Qt 17.7L	—	689G Handler

Axles/Planetaries	Drill Drive	Miscellaneous	Model
<b>HORIZONTAL DIRECTIONAL DRILLING MACHINES</b>			
135HEP (85W140) Planetary Thrust Drive 1-Qt .95L Planetary Track Drive 1-Pt. .48L	135HEP (85W140) 1.5-Qt 1.4L	Water Pump 1-Qt .95L	200TX, 400TX
—	135HEP (85W140) 1.5-Qt 1.4L	Water Pump 1-Qt .95L	1500TX
135HEP (85W140) Planetary Track Drive .31-Qt .30L	135HEP (85W140) 1-Qt .95L	No. 1 SAE30 Drill Fluid Pump 1-Qt .95L	6010 Turbo

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Converter	Engine Crankcase (pg. 1E-125)		Transmission
			w/o Filter	w/Filter	
<b>TREE SKIDDERS</b>					
300	Hy-Tran Ultra 14-Gal 53L	Hy-Tran Ultra 2.5-Gal 9.4L	No. 1 Single Grade 11.5-Qt 10.8L	12.5-Qt 11.8L	Hy-Tran Ultra 5.25-Gal 19.8L
400	Hy-Tran Ultra 18.5-Gal 70L	w/Transmission	No. 1 Single Grade 12-Qt 11.3L	15-Qt 14.1L	Hy-Tran Ultra 9-Gal 34L
300C, 400C	Hy-Tran Ultra 15-Gal 56.7L Synchromesh 18.5-Gal 70L Power Shift	w/Transmission	No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L	Hy-Tran Ultra 8-Gal 30.2L
600, 800, 825	Hy-Tran Ultra 8.5-Gal 32.1L	w/Transmission	No. 1 Single Grade 11-Qt 10.4L	12-Qt 11.3L	Hy-Tran Ultra 7.5-Gal 28.3L

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Differentials	Axles/ Planetaries	Case	Winch	Model
<b>TREE SKIDDERS</b>				
135H EP (85W140) 10-Qt 9.4L	135H EP (85W140) 1-Qt .94L	135H EP (85W140) 3.5-Qt 3.3L	135H EP (85W140) 7.25-Qt 6.8L	300
135H EP (85W140) 6.5-Qt 6.1L	135H EP (85W140) 3.5-Qt 3.3L	—	135H EP (85W140) 7.25-Qt 6.8L	400
135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 5-Gal 18.9L PR75 6.3-Gal 23.6L PR154	—	135H EP (85W140) 13-Qt 12.3L Speedmatic 7.25-Qt 6.8L Gearmatic	300C, 400C
135H EP (85W140) 10-Qt 9.4L PR75 15-Qt 14.1L PR130 16-Qt 15.1L PR158	135H EP (85W140) 5-Qt 4.7L PR75 8-Qt 7.5L PR158	—	135H EP (85W140) 8-Qt 7.5L	600, 800, 825

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Engine Crankcase (pg. 1E-125)		Hydraulic System	Transmission
	w/o Filter	w/Filter		
<b>TRENCHERS</b>				
DH4, DH4B	No. 1 Multi Grade 4.5-Qt 4.3L Litre Engine	5-Qt 4.7L 1.8 7-Qt 6.6L 2.1	Hy-Tran Ultra 15-Gal 56.8L Total System (Approx. capacity depending on attachment) 9.4-Gal 35.6L Reservoir	135H EP (85W140) 3-Pt 1.4L
DH5, DH5B	No. 1 Multi Grade 6-Qt 5.7L	7-Qt 6.6L	Hy-Tran Ultra 18-Gal 68L Total System 15-Gal 57L Reservoir	—
DH7	No. 1 Multi Grade Prior to Engine S/N 11,300,0 11 9-Qt 8.5L Engine S/N 11,300,011 & After 7-Qt 6.6L	10-Qt 9.5L 8-Qt 7.6L	Hy-Tran Ultra 22-Gal 83L Total System 14-Gal 53L Reservoir	135H EP (85W140) 2-Speed 2-Qt 1.9L
FH4	No. 1 Single Grade 4.5-Qt 4.3L 1.8 Litre Engine — 2.1 Litre Engine	5-Qt 4.7L 7-Qt 6.6L	Hy-Tran Ultra 15.9-Gal 56.8L Total System 9.4-Gal 35.6L Reservoir	135H EP (85W140) 3-Pt 1.4L
Maxi-Sneaker	No. 1 Single Grade —	5-Qt 4.7L	Hy-Tran Ultra 5.5-Gal 20.8L	—

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Axles/ Planetaries	Differentials	Gear Box	Miscellaneous	Model
<b>TRENCHERS</b>				
135H EP (85W140) Front & Rear Axles 1-Gal 3.8L Each	—	Plow 3-Qt 2.8L Part No. B90940 Trencher 135H EP (85W140) 3- Pt 1.4L	135H EP (85W140) Pump Drive .5-Qt .47L	DH4, DH4B
135H EP (85W140) (For limited slip differential) Front & Rear Axles 4-Qt 3.8L	—	Plow 3-Qt 2.8L Part No. B90940 135H EP (85W140) Headshaft .4-Pt .19L Reduction .9-Qt .9L	135H EP (85W140) Pump Drive .5-Qt .47L	DH5, DH5B
135H EP (85W140) (For limited slip differential) 4-Qt 3.8L	—	Plow 3-Qt 2.8L Part No. B90940 Trencher Drive 135H EP (85W140) 1-Qt .9L Hydra-Borer No. 1 (SAE 30) .5-Qt .5L	No. 1 (SAE 30) Pump Drive 3-Pt 1.4L	DH7
135H EP (85W140) Front & Rear Axles 1-Gal 3.8L Each	—	—	—	FH4
135H EP (85W140) Front & Rear Axles 3-Pt 1.4L	—	135H EP (85W140) Final Drive 1-Qt .9L Pump Drive .5-Qt .47L Plow 2-Qt 1.9L Part No. B90940	—	Maxi-Sneaker

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Engine Crankcase (pg. 1E-125)		Hydraulic System	Transmission
	w/o Filter	w/Filter		
<b>TRENCHERS</b>				
Maxi-Sneaker B	No. 1 Multi Grade 4.2-Qt 4L	4.8-Qt 4.5L	Hy-Tran Ultra 9-Gal 34L Total System 6.8-Gal 25.8L Reservoir	135H EP (85W140) 1-Qt .94L
Maxi-Sneaker C	No. 1 Multi Grade 6.2-Qt 5.8L	6.3-Qt 5.9L	Hy-Tran Ultra 9-Gal 34L Total System 6.83-Gal 28.8L Reservoir	Hy-Tran Ultra 1-Qt .94L
Mini-Sneakers A & B Models	Low Ash Single Grade 3.5-Qt 3.3L	4-Qt 3.8L	Hy-Tran Ultra Model A Reservoir Refill w/Filter 4.5-Gal 17L w/o Filter 3.5-Gal 13L Model B 4.2-Gal 15.9L	—
TF300	Low Ash Single Grade 3.5-Qt 3.3L	—	No. 1 (SAE 30) 7-Gal 26.5L	No. 1 (SAE 30) 1-Qt .94L
TF700	Low Ash Single Grade 3.4-Qt 3.3L Wisconsin Engine No. 1 Single Grade 4.8-Qt 4.5L Deutz Engine	4-Qt 3.8L 6.3-Qt 6L	No.1 (SAE 30) 5-Gal 19L	No. 1 (SAE 30) 1-Qt .94L
TF1000	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 6-Qt 5.7L	7-Qt 6.6L	No. 1 (SAE 30) 16-Gal 61L	No. 1 (SAE 30) 1-Gal 4L
TL70	Low Ash Single Grade 2.75-Pt 1.3L	—	—	—
TL100	No. 1 Single Grade 2-Qt 1.9L Kohler Engine Low Ash Single Grade 3-Pt 1.4L Wisconsin Engine	—	—	—

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Axles/ Planetaries	Differentials	Gear Box	Miscellaneous	Model
<b>TRENCHERS</b>				
—	135H EP (85W140) Front & Rear Axles 3-Pt 1.4L Each	Plow 2-Qt 1.8L Part No. B90940	135H EP (85W140) Flywheel Housing 8-oz.	Maxi-Sneaker B
135H EP (85W140) Front & Rear Axles 3-Qt 1.4L	—	Plow .55-Qt .5L Part No. B90940	—	Maxi-Sneaker C
—	135H EP (85W140) Front & Rear Axles 3-Pt 1.4L Each	Plow 2-Qt 1.8L Part No. B90940	—	Mini-Sneakers A & B Models
—	—	No. 1 (SAE 30) Satellite .5-Qt .47L Hydra-Borer .25-Qt .25L	—	TF300
—	—	No. 1 (SAE 30) Satellite .5-Qt .47L Hydra-Borer .5-Qt .47L 135H EP (85W140) Conveyor .33-Qt .16L	—	TF700
—	—	135H EP (85W140) Conveyor .5-Qt .5L	—	TF1000
135H EP (85W140) Transaxle 3-Pt 1.4L	—	—	—	TL70
135H EP (85W140) Transaxle 3-Pt 1.4L	—	—	—	TL100

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Engine Crankcase (pg. 1E-125)		Hydraulic System	Transmission
	w/o Filter	w/Filter		
<b>TRENCHERS</b>				
TL120	No. 1 Single Grade 2-Qt 1.9L	—	—	—
TL200	No. 1 Single Grade 2-Pt .9L	—	Hy-Tran Ultra 24-fl. oz. .8L	—
W4	No. 1 Single Grade 5-Qt 4.7L	—	Hy-Tran Ultra 15-Gal 56.8L	135H EP (85W140) 1.4-Qt 1.3L
10 + 2, 12 + 2	No. 1 Single Grade 2-Qt 1.9L	—	—	—
14 + 4, 16 + 4	No. 1 Single Grade 2-Qt 1.9L	—	Hy-Tran Ultra 6.33-Gal 24.1L Reservoir	—
20 + 4	No. 1 Single Grade 3.5-Qt 3.3L	—	Hy-Tran Ultra 5-Gal 18.9L Reservoir	—
25 + 4	No. 1 Single Grade 3.5-Qt 3.3L	4-Qt 3.8L	Hy-Tran Ultra 8-Gal 30.3L Total System 7-Gal 26.5L Reservoir	—
25 + 4XP	Low Ash Single Grade 3.5-Qt 3.3L	4-Qt 3.8L	Hy-Tran Ultra 8-Gal 30.3L Total System 7.5-Gal 28.4L Reservoir	—
30 Fleethoe	No. 1 Single Grade 3.5-Qt 3.3L	4-Qt 3.8L	Hy-Tran Ultra 13.8-Gal 52.2L Total System 10.8-Gal 40.9L Reservoir	—

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Axles/ Planetaries	Differentials	Gear Box	Miscellaneous	Model
<b>TRENCHERS</b>				
135H EP (85W140) Transaxle 3-Pt 1.4L	—	—	—	TL120
135H EP (85W140) Transaxle 3-Pt 1.4L	—	—	—	TL200
135H EP (85W140) Front & Rear Axles 1-Gal 3.8L Each	—	—	—	W4
135H EP (85W140) Transaxle 3-Pt 1.4L	—	—	—	10 + 2, 12 + 2
—	135H EP (85W140) 5- Pt 2.5L	—	—	14 + 4, 16 + 4
—	135H EP (85W140) Model 30 3-Pt 1.4L Model 44 3-Qt 2.7L	Plow 2-Qt 1.9L Part No. B90940 Hydra-Borer 1-Qt .94L No. 1 (SAE 30)	—	20 + 4
135H EP (85W140) Front & Rear Axles 3-Qt 2.7L	—	135H EP (85W140) Final Drive 1-Qt .94L Hydra-Borer 3-Pt 1.4L No. 1 (SAE 30)	—	25 + 4
135H EP (85W140) Front & Rear Axles 3-Qt 2.7L Each	—	135H EP (85W140) Final Drive 1.5-Qt 1.4L Hydra-Borer .5-Qt .5L No. 1 (SAE 30)	—	25 + 4XP
135H EP (85W140) Front & Rear Axles 3-Qt 2.7L Each	—	135H EP (85W140) Final Drive 1-Qt .94L	—	30 Fleethoe

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Engine Crankcase (pg. 1E-125)		Hydraulic System	Transmission
	w/o Filter	w/Filter		
<b>TRENCHERS</b>				
30 + 4				
Prior to S/N 1232796	Wisconsin Engine Low Ash Single Grade	—	Hy-Tran Ultra Reservoir	—
	—	5-Qt 4.7L	6-Gal 23L	
	Deutz Engine No. 1 Multi Grade	—	Front 7-Gal 26L	
	—	6-Qt 5.7L	Rear	
S/N 1232796 & After	Wisconsin Engine Low Ash Single Grade	—	Hy-Tran Ultra Reservoir	—
	—	4-Qt 3.8L	6.4-Gal 24.2L	
	Deutz Engine No. 1 Multi Grade	—	Front 6.2-Gal 24L	
	—	3.7-Qt 3.5L	Rear	
40 + 4	Wisconsin Engine Low Ash Single Grade	—	Hy-Tran Ultra Reservoir	—
	—	5-Qt 4.7L	6-Gal 23L	
	Deutz Engine No. 1 Multi Grade	—	Front 7-Gal 26L	
	—	6-Qt 5.7L	Rear	
60	No. 1 Multi Grade (10W30)	—	Hy-Tran Ultra	—
	—	1.2-Qt 1.1L	2.2-Gal 8.3L	
70 + 4	Case Diesel Engine No. 1 Multi Grade	—	Hy-Tran Ultra Reservoir	—
	6-Qt 5.7L	7-Qt 6.6L	10-Gal 38L	
	Wisconsin Gas Engine Low Ash Single Grade	—	Accessory - 15-Gal 57L	
	6-Qt 5.7L	7-Qt 6.6L		
360	Deutz Engine No. 1 Multi Grade	—	Hy-Tran Ultra Reservoir	135H EP (85W140)
	3.1-Qt 2.9L	3.7-Qt 3.5L	9.3-Gal 35L	1.5-Qt 1.4L
	Wisconsin Engine Low Ash Single Grade	—		
	3.5-Qt 3.3L	4-Qt 3.8L		
430 Scatback	No. 1 Single Grade	—	Hy-Tran Ultra	Eng. Gearbox
	4-Qt 3.7L	4.75-Qt 4.4L	12-Gal 45.3L	135H EP (85W140)
				1-Qt .94L

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Axles/ Planetaries	Differentials	Gear Box	Miscellaneous	Model
<b>TRENCHERS</b>				
—	135H EP (85W140) 2-Pt .9L	Final Drive 135H EP (85W140) 3- Pt 1.4L	—	30 + 4 Prior to S/N 1232796
—	135H EP (85W140) 1.7-Qt 1.6L (Use w/B91246 Additive)	Final Drive 135H EP (85W140) 1.5-Qt 1.4L	—	S/N 1232796 & After
—	135H EP (85W140) 2-Pt .9L	Final Drive 135H EP (85W140) 3-Pt 1.4L	—	40 + 4
Hy-Tran Ultra Transaxle 1.7-Pt .8L Planetary .5-Qt .5L	—	—	—	60
135H EP (85W140) Front & Rear Axles 5.5-Pt 2.6L	—	Plow 4-Qt 3.8L Part No. B90940 Gear Reduction 135H EP (85W140) 2-Pt .9L	—	70 + 4
135H EP (85W140) Front & Rear Axle 6-Pt 2.8L Each	—	Plow 3-Qt 2.8L Part No. B90940 Hydra-Borer 135H EP (85W140) 1-Qt .94L	—	360
—	135H EP (85W140) 1.5-Qt 1.4L Each	Gear Reduction Box 135H EP (85W140) 1-Qt .94L	—	430 Scatback

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Engine Crankcase (pg. 1E-125)		Hydraulic System	Transmission
	w/o Filter	w/Filter		
<b>TRENCHERS</b>				
460	No. 1 —	8-Qt 7.6L	Hy-Tran Ultra Reservoir w/o Filter 8-Gal 30.3L	135H EP (85W140) 3.5-Pt 1.7L
560	No. 1 Multi Grade —	8-Qt 7.6L	Hy-Tran Ultra 8-Gal 30.3L Reservoir w/o Filter change	Hy-Tran Ultra 3.5-Pt 1.7L
580B Road Run' r	No. 1 Single Grade 4-Qt 3.8L	5-Qt 4.7L	No. 1 (SAE 30) Reservoir 28-Qt 26.5L	135H EP (85W140) 17-Qt 16.1L
660	No. 1 Multi Grade —	11.5-Qt 11L	Hy-Tran Ultra Reservoir w/o Filter 10-Gal 37.9L	Hy-Tran Ultra 3.5-Pt 1.7L
760	No. 1 Single Grade —	11.5-Qt 11L	Hy-Tran Ultra 30-Gal 113.5L Total System 27-Gal 102.5L Reservoir	135H EP (85W140) 4-Speed 3-Pt 1.4L
860	No. 1 Multi Grade —	11.6-Qt 11L	Hy-Tran Ultra Reservoir w/Filter 22-Gal 83.3L w/o Filter 20-Gal 75.7L	Hy-Tran Ultra 3-Pt 1.4L

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Axles/ Planetaries	Differentials	Gear Box	Miscellaneous	Model
<b>TRENCHERS</b>				
135H EP (85W140) Center Bowl (ea.) 3.5-Qt 3.3L	Hy-Tran Ultra Drive Planetary (H.D. Trencher) 2-Qt 1.9L	Hy-Tran Ultra Hydro-Borer 1-Qt .94L	—	460
135H EP (85W140) Planetary Ends (Each) 1-Pt .5L	135H EP (85W140) Center Bowl (Each) 4-Qt 3.8L	Hy-Tran Ultra Hydra-Borer 1-Qt .94L	Hy-Tran Ultra Drive Planetary 1-Qt 1.9L	560
—	—	Final Drive 135H EP (85W140) 4.5-Pt 2.1L	Hy-Tran Ultra Torque Tube/ Converter 16-Qt 15.1L Power Steering Reservoir 1-Qt .94L Air Cleaner No. 1 Single Grade 2.75-Pt 1.3L	580B Road Run' r
135H EP (85W140) Planetary Ends (Each) 1.3-Pt .6L	135H EP (85W140) Center Bowl 4-Qt 3.8L Each	Hy-Tran Ultra Pump Drive 1.4-Pt .6L Hydra-Borer 1-Qt .9L	Hy-Tran Ultra Drive Planetary 1.5-Qt 1.4L Hydra-Borer (if equipped) 1-Qt .95L	660
135H EP (85W140) Planetary Hubs Front & Rear Axles 2.1-Pt 1L	135H EP (85W140) Front & Rear Axles 19-Pt 9L Each	Pump Drive 135H EP (85W140) 3.5-Pt 1.7L Hydra-Borer 1-Qt .94L	Chain Drive Planetary 135H EP (85W140) 3-Pt 1.4L w/Two Lift Cyl. 4.25-Pt 2L w/One Lift Cyl. Transfer Case 135H EP (85W140) 1.5-Pt .7L	760
135H EP (85W140) Planetary Ends (Each) 2.1-Pt 1L	135H EP (85W140) Front & Rear Axles 19-Pt 9L Each	Hy-Tran Ultra Pump Drive 1.4-Pt .6L Hydra-Borer 1-Qt .9L	Hy-Tran Ultra Chain Drive Planetary 4.25-Qt 2L Transfer Case 1.5-Pt .7L	860

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
W5	Hy-Tran Ultra 8.5-Gal 32.1L Total System 4-Gal 15.1L Refill	Hy-Tran Ultra 1-Qt .9L	135H EP (85W140) 11-Gal 41.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L	Hy-Tran Ultra 11-Qt 10.4L w/Gear Box
W5A	Hy-Tran Ultra 8.5-Gal 32.1L Total System 4-Gal 15.1L Refill	Hy-Tran Ultra 1-Qt .9L	135H EP (85W140) 11-Gal 41.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L	Hy-Tran Ultra 11.5-Qt 10.9L w/Gear Box
W7, W7C	Hy-Tran Ultra 11-Gal 41.6L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 4.5-Pt 2L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 8-Qt 7.5L	9-Qt 8.5L	w/ Transmission
W7E	Hy-Tran Ultra 11-Gal 41.6L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 4.25-Pt 2L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 10-Qt 9.4L	11-Qt 10.4L	w/ Transmission
W8B	Hy-Tran Ultra 17-Gal 64.3L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W8C	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W8E	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W9, W9A	Hy-Tran Ultra 14-Gal 53L Total System 5-Gal 18.9L Refill	Hy-Tran Ultra 1.5-Qt 1.4L	Hy-Tran Ultra 5.75-Gal 21.7L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 8-Qt 7.5L	9-Qt 8.5L	—

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives				Model
Diesel	Gas	Differentials	Planetaries	Miscellaneous		
<b>WHEEL LOADERS</b>						
No. 1 Single Grade	Low Ash Single Grade	—	w/Transmission	Steering Gear 135H EP (85W140) 1-Pt .47L	W5	
No. 1 Single Grade	Low Ash Single Grade	—	w/Transmission	Steering Gear 135H EP (85W140) 1-Pt .47L	W5A	
No. 1 Single Grade 2-Qt 1.8L	Low Ash Single Grade 1.5-Qt 1.4L	135H EP (85W140) 6-Qt 5.6L	135H EP (85W140) 3.5-Pt 1.6L	Steering Gear 135H EP (85W140) 1-Pt .47L	W7, W7C	
No. 1 Single Grade 2-Qt 1.8L	Low Ash Single Grade 1.5-Qt 1.4L	135H EP (85W140) 6-Qt 5.6L	135H EP (85W140) 3.5-Pt 1.6L	Steering Gear 135H EP (85W140) 1-Pt .47L	W7E	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 4.5-Pt 2.1L	Steering Gear 135H EP (85W140) 1-Pt .47L	W8B	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L Front 14.5-Qt 13.7L Rear	135H EP (85W140) 3.5-Pt 1.6L Front 5-Pt 2.3L Rear	Steering Gear 135H EP (85W140) 1-Pt .47L	W8C	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 3.5-Pt 1.6L	Steering Gear 135H EP (85W140) 1-Pt .47L	W8E	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 4.5-Pt 2.1L	Steering Gear 135H EP (85W140) 1-Pt .47L	W9, W9A	

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
W9B	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W9C	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W9E	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W10	Hy-Tran Ultra 14-Gal 53L Total System 5-Gal 18.9L Refill	Hy-Tran Ultra 2-Qt 1.8L	Hy-Tran Ultra 5.75-Gal 21.7L	No. 1 Single Grade 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W10B	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W10C	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W10E	Hy-Tran Ultra 16-Gal 60.5L Total System 7-Gal 26.5L Refill	Hy-Tran Ultra 3-Qt 2.8L	Hy-Tran Ultra 6.25-Gal 23.6L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W11	Hy-Tran Ultra 10-Gal 38L	—	Hy-Tran Ultra 13-Qt 12L	No. 1 Single Grade 6-Qt 5.7L	7-Qt 6.6L	w/ Transmission

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			Miscellaneous	Model
Diesel	Gas	Differentials	Planetaries			
<b>WHEEL LOADERS</b>						
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 4.5-Pt 2.1L Front 3-Pt 1.4L Rear	Steering Gear 135H EP (85W140) 1-Pt .47L	W9B	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L Front 14.5-Qt 13.7L Rear	135H EP (85W140) 3.5-Pt 1.6L Front 5-Pt 2.3L Rear	Steering Gear 135H EP (85W140) 1-Pt .47L	W9C	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 3.5-Pt 1.6L	Steering Gear 135H EP (85W140) 1-Pt .47L	W9E	
No. 1 Single Grade	—	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 3-Qt 2.8L	Steering Gear 135H EP (85W140) 1-Pt .47L	W10	
No. 1 Single Grade	Low Ash Single Grade	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 4.5-Pt 2.1L Front 3-Pt 1.4L Rear	Steering Gear 135H EP (85W140) 1-Pt .47L	W10B	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L Front 14.5-Qt 13.7L Rear	135H EP (85W140) 3.5-Pt 1.6L Front 5-Pt 2.3L Rear	Steering Gear 135H EP (85W140) 1-Pt .47L	W10C	
No. 1 Single Grade 1.5-Qt 1.4L	Low Ash Single Grade 2.5-Qt 2.3L	135H EP (85W140) 11-Qt 10.4L	135H EP (85W140) 3.5-Pt 1.6L	Steering Gear 135H EP (85W140) 1-Pt .47L	W10E	
No. 1 Single Grade	Low Ash Single Grade	135H EP (85W140) Axles (Each) 9-Qt 8.5L	—	—	W11	

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
W11B	Hy-Tran Ultra 10-Gal 38L	—	Hy-Tran Ultra w/Filter Prior to S/N 9164338 10-Qt 9.5L S/N 9164338 & After 18-Qt 17L	No. 1 Multi Grade —	11.6-Qt 11L	w/ Transmission
W12	Hy-Tran Ultra 15-Gal 56.7L Total System 8-Gal 30.2L Refill	Hy-Tran Ultra 2-Qt 1.8L	Hy-Tran Ultra 5.75-Gal 21.7L	No. 1 Single Grade 12-Qt 11.3L	14-Qt 13.2L	w/ Transmission
W14, W14H, W14FL	Hy-Tran Ultra 21-Gal 80L Total System 16-Gal 61L Refill	—	Hy-Tran Ultra 7.5-Gal 28.3L	No. 1 Single Grade 10-Qt 9.4L	11-Qt 10.4L	w/ Transmission
W14B	Hy-Tran Ultra 26.5-Gal 100L Total System 18.5-Gal 70L Refill	—	Hy-Tran Ultra 22-Qt 20.8L	No. 1 Multi Grade 15-Qt 14.2L	16-Qt 15.1L	w/ Transmission
W14C	Hy-Tran Ultra 18.5-Gal 70L Refill Capacity	—	Hy-Tran Ultra 20-Gal 18.9L Refill Capacity	No. 1 Multi Grade —	16.7-Qt 15.1L	w/ Transmission
W18	Hy-Tran Ultra 29-Gal 110L Total System 17-Gal 64L Refill	—	Hy-Tran Ultra 7.5-Gal 28.3L	No. 1 Single Grade 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W18B	Hy-Tran Ultra 31-Gal 118L Total System 17-Gal 64L Refill	—	Hy-Tran Ultra 10-Gal 38L Total System 8.5-Gal 32.3L Transmission Only	No. 1 Single Grade 15-Qt 14.2L	17-Qt 16.1L 18-Qt 17.1L (w/Filter if equipped w/high altitude option)	w/ Transmission
W20, W20B	Hy-Tran Ultra 29-Gal 110L Total System 17-Gal 64L Refill	—	Hy-Tran Ultra 7.5-Gal 28.3L	No. 1 Single Grade 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			Miscellaneous	Model
Diesel	Gas	Differentials	Planetaries			
<b>WHEEL LOADERS</b>						
No. 1 Multi Grade	—	135H EP (85W140) Axles (Each) 13.5-Qt 12.8L	—	—	—	W11B
No. 1 Single Grade	—	135H EP (85W140) 20-Qt 18.9L	135H EP (85W140) 3-Qt 2.8L	Steering Gear 135H EP (85W140) 1-Pt .47L	—	W12
No. 1 Single Grade	—	135H EP (85W140) 9.5-Qt 9L	135H EP (85W140) 1.5-Qt 1.4L	—	—	W14, W14H, W14FL
No. 1 Multi Grade	—	135H EP (85W140) 16-Pt 7.6L Front 19-Pt 8.9L Rear	135H EP (85W140) 5-Pt 2.4L Front - Each Hub 3-Pt 1.4L Rear Each Hub	—	—	W14B
No. 1 Multi Grade	—	Case Transaxle Fluid 21.2-Qt 20L	2.5-Qt 2.4L	—	—	W14C
No. 1 Single Grade	—	135H EP (85W140) Prior to S/N 9115403 9.5-Qt 9L S/N 9115403 & After 14-Qt 13.3L	135H EP (85W140) 2-Qt 1.9L	—	—	W18
—	—	135H EP (85W140) Axles 14-Qt 13.3L Center Bowl 1.75-Qt 1.6L Each Wheel End	—	—	—	W18B
No. 1 Single Grade	—	135H EP (85W140) Prior to S/N 9115403 9.5-Qt 9L S/N 9115403 & After 14-Qt 13.3L	135H EP (85W140) 2-Qt 1.9L	—	—	W20, W20B

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
W20C	Hy-Tran Ultra 31-Gal 118L Total System 17-Gal 64L Refill (Tank)	—	Hy-Tran Ultra 10-Gal 38L Total System 8.5-Gal 32.3L Transmission Only	No. 1 Single Grade 15-Qt 14.2L	17-Qt 16.1L 18-Qt 17.1L (w/Filter if equipped w/high altitude option)	w/ Transmission
W24	Hy-Tran Ultra 20.8-Gal 78.7L Refill	—	Hy-Tran Ultra 9-Gal 34.07L	No. 1 Single Grade 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W24B, W24C	Hy-Tran Ultra 29-Gal 110L Total System 17-Gal 64.3L Refill (Tank)	—	Hy-Tran Ultra 7.5-Gal 28.3L	No. 1 Single Grade 12-Qt 11.3L	3-Qt 12.3L Single Filter 14-Qt 13.2L Dual Filter	w/ Transmission
W26	Hy-Tran Ultra 42-Gal 159L Total System 25-Gal 94.6L Refill	—	Hy-Tran Ultra 10-Gal 37.8L	No. 1 Single Grade 14-Qt 13.2L	16-Qt 15.1L	w/ Transmission
W26B	Hy-Tran Ultra 54 Gal 204.4L Total System 31-Gal 117.3L Refill	—	Hy-Tran Ultra 5.5-Gal 20.8L	No. 1 Single Grade 12-Qt 11.3L	13-Qt 12.3L	w/ Transmission
W30	Hy-Tran Ultra 48-Gal 181.7L Total System 28-Gal 106.4L Refill	—	Hy-Tran Ultra Prior to S/N 9165563 8-Gal 30.3L No. 1 (SAE 10W) S/N 9165563 & After 5.5-Gal 20.8L	No.1 Single Grade 24-Qt 22.7L	28-Qt 26.5L	w/ Transmission
W36 Prior to S/N 17754000	Hy-Tran Ultra 56-Gal 212L Total System 36.5-Gal 136L Refill	—	Hy-Tran Ultra 6-Gal 22.7L	No. 1 Single Grade 26-Qt 24.6L	30-Qt 28.4L	w/ Transmission

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			Miscellaneous	Model
Diesel	Gas	Differentials	Planetaries			
<b>WHEEL LOADERS</b>						
No. 1 Single Grade	—	135H EP (85W140) Axles 12-Qt 11.3L Center Bowl 3-Pt 1.4L Each Wheel End	—	—	—	W20C
No. 1 Single Grade	—	135H EP (85W140) 13-Qt 12.3L	135H EP (85W140) 6.5-Qt 6.1L	Steering Gear 135H EP (85W140) 2.5-Pt 1.2L		W24
No. 1 Single Grade	—	135H EP (85W140) 13-Qt 12.3L	135H EP (85W140) 6.5-Qt 6.1L	—		W24B, W24C
No. 1 Single Grade	—	135H EP (85W140) 21-Qt 19.9L Front 22.5-Qt 20.3L Rear	135H EP (85W140) 6-Qt 5.6L Front 3-Qt 2.8L Rear	Steering Gear 135H EP (85W140) 2.5-Pt 1.2L		W26
No. 1 Single Grade	—	135H EP (85W140) 21-Qt 19.9L Front 22.5-Qt 20.3L Rear	135H EP (85W140) 6-Qt 5.6L Front 3-Qt 2.8L Rear	Steering Gear 135H EP (85W140) 2.5-Pt 1.2L		W26B
No. 1 Single Grade	—	135H EP (85W140) 13-Qt 12.3L Each	135H EP (85W140) 4-Qt 3.8L Each	Alch. Evap. 1-Pt .47L		W30
No. 1 Single Grade	—	135H EP (85W140) 22-Qt 21L Center Bowl Each	135H EP (85W140) 9-Qt 8.5L Wheel Ends Each	Alch. Evap. 1-Pt .47L Brake Res. 1.4-Qt 1.3L		W36 Prior to S/N 17754000

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
W36 - Cont'd S/N 17754000 & After	Hy-Tran Ultra 36.5-Gal 138L Refill (Tank)	—	Hy-Tran Ultra 4.5-Gal 17L Refill	No. 1 Single Grade —	23.7-Qt 22.4L	w/ Transmission
500LK	Hy-Tran Ultra 8.5-Gal 32.1L Total System 4-Gal 15.1L Refill	Hy-Tran Ultra 1-Qt .9L	135H EP (85W140) 7-Gal 26.5L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L	Hy-Tran Ultra 5-Qt 4.7L w/Shuttle
621 Prior to P.I.N. JAK0021701	Hy-Tran Ultra 40-Gal 151.4L Total System 23.8-Gal 90.1L Refill	—	Prior to P.I.N. JAK0020901 Clark Trans. Hy-Tran Ultra 5-Gal 18.9L Refill P.I.N. JAK00- 20901 & After ZF Trans. No. 1 Multi Grade 14-Qt 13.2L Refill	No. 1 Multi Grade —	16-Qt 15.1L	w/ Transmission
P.I.N. JAK0021701 & After	Hy-Tran Ultra 40-Gal 151.4L Total System 23.8-Gal 90.1L Refill	—	No. 1 Multi Grade 5-Gal 18.9L Total System 2-Gal 7.4L Refill	No. 1 Multi Grade —	16-Qt 15.1L	w/ Transmission
621B	Hy-Tran Ultra 40.5-Gal 153.1L Total System 23.8-Gal 90.1L Refill	—	No. 1 Multi Grade 5-Gal 18.9L Total System 2-Gal 7.4L Refill	No. 1 —	16-Qt 15.1L	w/ Transmission
621C	Trans-XHD 40.5-Gal 153.1L Total System 23.8 Gal 90.1L Refill	—	Trans-XHD 5-Gal 18.9L Total System 2-Gal 7.4L Refill w/Filter change	No. 1 Multi Grade — 15.1L	16-Qt	w/ Transmission

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			Miscellaneous	Model
Diesel	Gas	Differentials	Planetaries			
<b>WHEEL LOADERS</b>						
No. 1 Single Grade	—	135H EP (85W140) 22-Qt 21L Center Bowl Each	135H EP (85W140) 3-Qt 2.8L Wheel Ends Each	Alch. Evap. 1-Pt .47L		W36 - Cont'd S/N 17754000 & After
No. 1 Single Grade	Low Ash Single Grade	—	—	Steering Gear 135H EP (85W140) 1-Pt .47L		500LK
No. 1 Multi Grade	—	135H EP (85W140) 12-Qt 11.4L Center Bowl Each	135H EP (85W140) 3-Qt 2.8L Wheel Ends Each	Alch. Evap. 1-Pt .47L		621 Prior to P.I.N. JAK0021701
No. 1 Multi Grade	—	135H EP (85W140) 12-Qt 11.4L Center Bowl Each	135H EP (85W140) 3-Qt 2.8L Wheel Ends Each	—		P.I.N. JAK0021701 & After
—	—	135H EP (85W140) 10-Qt 9.5L Center Bowl Each	135H EP (85W140) 6-Qt 5.7L Wheel Ends Each	—		621B
—	—	135H EP (85W140) 9-Qt 9.5L Center Bowl Front/Rear Each Plus 1-Qt .95L B91246 Limited Slip Additive	135H EP (85W140) 6-Qt 5.7L Wheel Ends Each	—		621C

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
721	Hy-Tran Ultra 40.5-Gal 153.1L Total System 23.8-Gal 90.1L Refill	—	No. 1 Multi Grade 6-Gal 22.7L Refill	No. 1 Multi Grade —	22-Qt 20.8L	w/ Transmission
721B	Hy-Tran Ultra 40.5-Gal 153.1L Total System 23.8-Gal 90.1L Refill	—	No. 1 Multi Grade 6-Gal 22.7L Total System 3.25-Gal 12.3L Refill	No. 1 Multi Grade —	22-Qt 20.8L	w/ Transmission
721C	Trans-XHD 40.5-Gal 153.1L Total System 23.8-Gal 90.1L Refill	—	Trans-XHD 6-Gal 22.7L Total System 3.25-Gal 12.3L Refill w/Filter change	No. 1 Multi Grade —	22-Qt 20.8L	w/ Transmission
821	Hy-Tran Ultra 46-Gal 174.2L Total System 23.8-Gal 90.1L Refill	—	No. 1 Multi Grade 7-Gal 26.5L Refill	No. 1 Multi Grade —	21-Qt 19.8L	w/ Transmission
821B	Hy-Tran Ultra 46-Gal 174.2L Total System 40-Gal 150.2L Refill	—	No. 1 Multi Grade 3.25-Gal 12.3L Refill	No. 1 —	22-Qt 20.8L	w/ Transmission

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			
Diesel	Gas	Differentials	Planetaries	Miscellaneous	Model
<b>WHEEL LOADERS</b>					
No. 1 Multi Grade	—	135H EP (85W140) 14.5-Qt 13.6L Center Bowl Each	135H EP (85W140) 3.6-Qt 3.4L Wheel Ends Each	—	721
—	—	135H EP (85W140) 16-Qt 15.1L Front 10-Qt 9.5L Rear Center Bowl Each	135H EP (85W140) 6-Qt 5.7L Wheel Ends Each	—	721B
—	—	135H EP (85W140) 14.5-Qt 15.1L Center Bowl Front Plus 1-Qt .95L B91246 Limited Slip Additive 9-Qt 9.5L Center Bowl Rear plus 1-Qt .95L B91246 Limited Slip Additive	135H EP (85W140) 6-Qt 5.7L Wheel Ends Each	—	721C
No. 1 Multi Grade	—	135H EP (85W140) 18.4-Qt 17.4L Center Bowl Each	135H EP (85W140) 4.8-Qt 4.5L Wheel Ends Each	—	821
—	—	135H EP (85W140) Front 20-Qt 18.9L Rear 14.5-Qt 13.7L Center Bowl Each	135H EP (85W140) 6.5-Qt 6.2L Front 6-Qt 5.7L Rear Wheel Ends Each	—	821B

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Engine Crankcase (pg. 1E-125)		Torque Converter
				w/o Filter	w/Filter	
<b>WHEEL LOADERS</b>						
821C	Trans-XHD 46-Gal 174.2L Total System 40-Gal 150.2L Refill	—	Trans-XHD 3.25-Gal 12.3L Refill w/Filter change	No. 1 Multi Grade —	22-Qt 20.8L	w/ Transmission
921, 921B	Hy-Tran Ultra 60.25-Gal 228L Total System 32-Gal 121L Refill	—	No. 1 Multi Grade 11.5-Gal 44L Total System 7.5-Gal 28.4L Refill	No. 1 Multi Grade —	36-Qt 34L	w/ Transmission
921C	Trans-XHD 241-Qt 228L Total System 128-Qt 121L Refill	—	Trans-XHD 30-Qt 28.4L Refill w/Filter change	No. 1 Multi Grade —	39-Qt 36.9L	w/ Transmission

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Air Cleaner		Final Drives			
Diesel	Gas	Differentials	Planetaries	Miscellaneous	Model
<b>WHEEL LOADERS</b>					
—	—	135H EP (85W140) Front Center Bowl 20-Qt 18.9L plus 2-Qt 1.9L B91246 Limited Slip Additive Rear Center Bowl 14.5-Qt 13.7L plus 1.5-Qt 1.4L B91246 Limited Slip Additive	135H EP (85W140) Front Wheel End 6.6-Qt 6.2L Rear 6-Qt 5.7L Wheel End	—	821C
No. 1 Multi Grade	—	135H EP (85W140) 38.4-Qt 36.3L Center Bowl Each 67.2-Qt 63.6L Total Axle Capacity	135H EP (85W140) 14.4-Qt 13.6L Wheel Ends Each	—	921, 921B
—	—	135H EP (85W140) 38.4-Qt 36.3L Center Bowl Front/ Rear Each	135H EP (85W140) 14.4-Qt 13.6L Wheel Ends Each	—	921C

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
W3	Hy-Tran Ultra 12-Gal 45.4L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 17-Qt 16L	Hy-Tran Ultra 16-Qt 15.1L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L      5-Qt 4.7L	
310B	Hy-Tran Ultra 6-Gal 22.7L Loader 12-Gal 45.4L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 6-Gal 22.7L	—	No. 1 Single Grade 4-Qt 3.7L      5-Qt 4.7L	
320	Hy-Tran Ultra 20-Gal 75.7L Loader & Backhoe	Hy-Tran Ultra 1-Pt.47L	135H EP (85W140) 5-Gal 8.9L w/Final Drive	—	Low Ash Single Grade 4-Qt 3.7L      5-Qt 4.7L	
320B	Hy-Tran Ultra 6-Gal 22.7L Loader 12-Gal 45.4L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 5-Gal 18.9L w/ Differential	—	Low Ash Single Grade 4-Qt 3.7L      5-Qt 4.7L	
380CK	Hy-Tran Ultra 4.75-Gal 18L w/Filter change 4.5-Gal 17L w/o Filter change	Hy-Tran Ultra 1.75-Pt .85L	Hy-Tran Ultra 6-Gal 22.7L	—	No. 1 Single Grade 6.5-Qt 6.25L      —	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner Diesel	Gas	Final Drive Differentials	Planetaries	Misc.	Model
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Single Grade	Low Ash Single Grade	w/Transmission	—	PTO Hy-Tran Ultra 1-Qt .94L	W3
Hy-Tran Ultra 12-Qt 11.3L w/Triple Range or Shuttle 14-Qt 13.2L w/o Triple Range or Shuttle	—	—	—	—	Steering Gear 135H EP (85W140) 1-Pt .47L	310B
Hy-Tran Ultra 12-Qt 11.3L w/Triple Range or Shuttle 14-Qt 13.2L w/o Triple Range or Shuttle	—	Low Ash Single Grade 1-Qt .47L	—	—	—	320
Hy-Tran Ultra 12-Qt 11.3L w/Triple Range or Shuttle 14-Qt 13.2L w/o Triple Range or Shuttle	—	Low Ash Single Grade	—	—	Steering Gear 135H EP (85W140) 1-Pt .47L	320B
—	No. 1 Single Grade	—	135H EP (85W140) 2.5-Pt 1.1L Each	—	—	380CK

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
380B	Hy-Tran Ultra 36-Qt 34L	—	w/Hyd.	—	No. 1 Single Grade 6-Qt 5.5L    7-Qt 6.5L	
420B	Hy-Tran Ultra 6-Gal 22.7L Loader 12-Gal 45.4L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 13-Qt 12.3L	w/Torque Tube	Low Ash Single Grade 4-Qt 3.7L    5-Qt 4.7L	
430 Series	Hy-Tran Ultra 3.5-Gal 13.2L Loader 7-Gal 26.5L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 15-Qt 14.1L Standard 26-Qt 24.6L G.P.	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L    5-Qt 4.7L	
430CK	Hy-Tran Ultra 3.5 Gal 13.2L Loader 7-Gal 26.5L Loader & Backhoe	Hy-Tran Ultra 2.5-Qt 2.3L	135H EP (85W140) 17-Qt 16L	—	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L    5-Qt 4.7L	
480CK	Hy-Tran Ultra 5.5-Gal 20.8L Loader 11-Gal 41.6L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 17-Qt 16L w/ Differential	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L    5-Qt 4.7L	
480B	Hy-Tran Ultra 11-Gal 41.6L Reservoir 24-Gal 90.8L Total System Loader & Backhoe 5.5-Gal 20.8L 3 Point Hitch	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 17-Qt 16L w/ Differential	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L    5-Qt 4.7L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Misc.	Model
	Diesel	Gas	Differentials	Planetaries			
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>							
—	No. 1 Single Grade	—	—	—	—	Belt Pulley Housing 135H EP (85W140) 1-Pt .5L	380B
Hy-Tran Ultra 16-Qt 15.1L	—	Low Ash Single Grade 1-Pt .47L	—	—	—	PTO Hy-Tran Ultra 1-Qt-.94L	420B
Hy-Tran Ultra 16-Qt 15.1L w/Standard CluHy-Tran Ultra 12-Qt 11.3L w/Case-O- Matic	No. 1 Single Grade 2.75-Pt 1.3L	Low Ash Single Grade 1-Pt .47L	w/Transmission			Steering Gear 135H EP (85W140) 3-Pt 1.4L	430 Series
Hy-Tran Ultra 16-Qt 15.1L	No. 1 Single Grade 1-Qt .94L	Low Ash Single Grade 1-Pt .47L	w/Transmission			—	430CK
Hy-Tran Ultra 16-Qt 15.1L	No. 1 Single Grade 1-Qt .94L	Low Ash Single Grade 1-Pt .47L	w/Transmission			—	480CK
Hy-Tran Ultra 16-Qt 15.1L	No. 1 Single Grade	Low Ash Single Grade	w/Transmission			—	480B

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
480C	Hy-Tran Ultra 23-Gal 87L Total System 11.5-Gal 43.5L Refill	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 20-Qt 19L	135H EP (85W140) 20-Qt 19L	No. 1 Single Grade 6-Qt 5.7L      7-Qt 6.6L	
480D	Hy-Tran Ultra 10.8-Gal 41L w/Filter change 10.5-Gal 39.7L w/o Filter change	—	135H EP (85W140) 20-Qt 18.9L 4-Sp. Transaxle	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle Transmission	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 6-Qt 5.7L      7-Qt 6.6L	
480E, 480E-LL	Hy-Tran Ultra 10.8-Gal 40.8L w/Filter change 10.9-Gal 41.3L w/o Filter change	—	135H EP (85W140) 21-Qt 19.9L Total System 20-Qt 19L Refill	Hy-Tran Ultra 8-Qt 7.6L Power Shuttle	No. 1 Single Grade —                      11.6-Qt 11L	
480F, 480F-LL	Hy-Tran Ultra 10.8-Gal 40.8L w/Filter change 10.5-Gal 39.7L w/o Filter change	—	135H EP (85W140) 19-Qt 18L	Hy-Tran Ultra 8-Qt 7.6L Power Shuttle	No. 1 Single Grade —                      11.6-Qt 11L	
530 Series	Hy-Tran Ultra 3.5-Gal 13.2L Loader 7-Gal 26.5L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 15-Qt 14.1L Standard 26-Qt 24.6L G.P.	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L      5-Qt 4.7L	
530CK	Hy-Tran Ultra 5.5-Gal 20.8L Loader 11-Gal 41.6L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 15-Qt 14.1L Standard	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L      5-Qt 4.7L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Misc.	Model
	Diesel	Gas	Differentials	Planetaries			
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>							
Hy-Tran Ultra 2-Qt 1.9L Mech.Shuttle	No. 1 Single Grade	—	w/Transmission			—	480C
—	No. 1 Single Grade	—	—	—	—	—	480D
—	No. 1 Single Grade	—	—	—	—	—	480E, 480E-LL
—	No. 1 Multi Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 7-Qt 6.6L Planetary Ends (each) 1.5-Qt 1.4L Transfer Case 1-Pt .5L			—	480F, 480F-LL
Hy-Tran Ultra 16-Qt 15.1L w/Std. CluHy- Tran Ultra 12-Qt 11.3L w/Case- O- Matic	No. 1 Single Grade 2.75-Pt 1.3L	Low Ash Single Grade 1-Qt .47L	w/Transmission			Steering Gear 135H EP (85W140) 3-Pt 1.4L	530 Series
Hy-Tran Ultra 16-Qt 15.1L w/Std. CluHy- Tran Ultra 12- Qt 11.3L w/ Case-O- Matic	No. 1 Single Grade .75-Pt 1.3L	Low Ash Single Grade 1-Qt .94L	w/Transmission			—	530CK

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
570LXT	Hy-Tran Ultra 14.4-Gal 54.5L w/Filter 13.9-Gal 52.6L w/o Filter	—	Hy-Tran Ultra 2WD- 19.5-Qt 18.5L Total System 16.9-Qt 16L Refill 4WD- 22-Qt 21L Total System 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade — 11.6-Qt 11L	
570LXT Series 2	Hy-Tran Ultra 14.5-Gal 55L w/Filter 14-Gal 53L w/o Filter 20.3-Gal 77L Total System	—	Hy-Tran Ultra 2WD- 19-Qt 18L Total System 16.9-Qt 16L Refill 4WD- 22-Qt 20.8L Total System 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade — 11.6-Qt 11L	
580CK	Hy-Tran Ultra 5.5-Gal 20.8L Loader 11-Gal 41.6L Loader & Backhoe	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 17-Qt 16L w/ Differential	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L 5-Qt 4.7L	
580B	Hy-Tran Ultra 11-Gal 41.6L Loader & Backhoe 5.5-Gal 20.8L 3 Point Hitch	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 17-Qt 16L w/ Differential	w/Torque Tube	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L 5-Qt 4.7L	
580C	Hy-Tran Ultra 29-Gal 110L Total System 17-Gal 64.1L Refill	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 20-Qt 19L	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle	No. 1 Single Grade 6-Qt 5.7L 7-Qt 6.6L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Model
	Diesel	Gas	Differentials	Planetaries	Misc.	
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Multi Grade	—	Front Drive Axle (4WD) Case Transaxle Fluid 5.8-Qt 5.5L Center Bowl .75-Qt .7L Wheel End (ea.) Rear Axle 15-Qt 14.2L Center Bowl 1.6-Qt 1.5L Wheel End (ea.)		—	570LXT
—	No. 1 Multi Grade	—	Front Drive Axle (4WD) Hy-Tran Ultra 5.8-Qt 5.5L Center Bowl .75-Qt .7L Wheel End (ea.) Rear Axle 15-Qt 14.2L Center Bowl 1.6-Qt 1.5L Wheel End (ea.)		—	570LXT Series 2
Hy-Tran Ultra 16-Qt 15.1L	No. 1 Single Grade 2.75-Pt 1.3L	Low Ash Single Grade 1-Qt .94L	w/Transmission		—	580CK
Hy-Tran Ultra 16-Qt 15.1L w/Shuttle Transmission 42-Qt 39.7L w/Hydrostatic	No. 1 Single Grade	Low Ash Single Grade	w/Transmission		—	580B
Hy-Tran Ultra 2-Qt 1.9L Mech.Shuttle	No. 1 Single Grade	—	w/Transmission		—	580C

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
580D and 580 Super D	Hy-Tran Ultra 12.5-Gal 47.3L w/Filter change 12-Gal 45.4L w/o Filter change	—	135H EP (85W140) 20-Qt 18.9L 4-Sp. Transaxle	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle Transmission	No. 1 Single Grade 580 Super D - 8-Qt 7.5L 9-Qt 8.6L Prior to S/N 4313432 6-Qt 5.7L 7-Qt 6.6L 580D S/N 4313432 & After 8-Qt 7.5L 9-Qt 8.6L	
580 Super E	Hy-Tran Ultra 23.75-Gal 89.9L Total System Tank Refill w/Filter 12.5-Gal 47.3L Tank Refill w/o Filter 12-Gal 45.4L	—	Case Transaxle Fluid Prior to S/N 17032504 20-Qt 18.9L 4-Sp. Transaxle S/N 17032504 & After 16-Qt 15L	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle Transmission	No. 1 Multi Grade — 11-Qt 10.4L	
580K	Hy-Tran Ultra Tank Refill 21.5-Gal 81.4L w/Filter change 21-Gal 79.5L w/o Filter change	—	Case Transaxle Fluid 4 Sp. Transaxle 22-Qt 20.8L Total System 20.5-Qt 19.4L Refill P.I.N. JJG0020000 & After: Hy-Tran Ultra 57.1-Qt 54L Total System 47.6-Qt 45L w/Filter 45.4-Qt 43L w/o Filter Refill	Hy-Tran Ultra 8-Qt 7.5L Power Shuttle Transmission	No. 1 Multi Grade — 11.6-Qt 11L	
580 Super K	Hy-Tran Ultra Tank Refill 21.5-Gal 81.4L w/Filter change 21-Gal 79.5L w/o Filter change	—	Hy-Tran Ultra 57.1-Qt 54L Total System 47.6-Qt 45L w/Filter change 45.4-Qt 43L w/o Filter change	—	No. 1 Multi Grade — 11.6-Qt 11L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Model
	Diesel	Gas	Differentials	Planetaries	Misc.	
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Single Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 6.9-Qt 6.5L Planetary Ends (each) 1.6-Qt 1.5L Transfer Case (4WD) 1-Pt .5L		—	580D and 580 Super D
—	No. 1 Multi Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 7-Qt 6.6L Planetary Ends (each) 1.5-Qt 1.4L Transfer Case (4WD) 1-Pt .5L		—	580 Super E
—	No.1 Multi Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 7.4-Qt 7L Planetary Ends (Each) 1.1-Qt 1L Transfer Case 1-Pt .5L		—	580K
—	No. 1 Multi Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 7.4-Qt 7L Planetary Ends (Each) 1.1-Qt 1L		—	580 Super K

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

**NOTE!** This chart reads across both pages. Find the model number in either the far left or far right hand column. Then read across both pages to find the desired column of information.

Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
580L, 580 Super L	Hy-Tran Ultra Tank Refill 14.4-Gal 54.5L w/Filter Change 13.9-Gal 52.6L w/o Filter Change	—	Hy-Tran Ultra 2WD- 19.5-Qt 18.5L Total 16.9-Qt 16.1L Refill 4WD- 22-Qt 21L Total 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade —	11.6-Qt 11L
580L Series 2, 580 Super L Series 2	Hy-Tran Ultra Tank Refill 58-Qt 55L w/Filter Change 56-Qt 53L w/o Filter Change Total System (580L) 112-Qt 106L plus 6-Qt 5.7L f/Extendahoe (580 Super L) 126-Qt 119L plus 6-Qt 5.7L f/Extendahoe	—	Hy-Tran Ultra (Std. & (Powershift Trans.) 2WD 19.5-Qt 18.5L Total 16.9-Qt 16.1L Refill 4WD 22-Qt 21L Total 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade —	11.6-Qt 11L
590	Hy-Tran Ultra Tank Refill 21.5-Gal 81.4L w/Filter change 21-Gal 79.5L w/o Filter change	—	Hy-Tran Ultra 57.1-Qt 54L Total System 47.6-Qt 45L w/Filter change 45.4-Qt 43L w/o Filter change	—	No. 1 Multi Grade —	11.6-Qt 11L

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner Diesel	Gas	Final Drive Differentials	Planetaries	Misc.	Model
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Multi Grade	—	Hy-Tran Ultra Front Drive Axle Center Bowl 5.8-Qt 5.5L Wheel Ends (ea.) .75-Qt .7L Rear Axle Center Bowl 11.6-Qt 11L Wheel Ends (ea.) 2.1-Qt 2L		—	580L, 580 Super L
—	No. 1 Multi Grade	—	Hy-Tran Ultra Front Drive Axle Center Bowl 5.8-Qt 5.5L Wheel Ends (ea.) .75-Qt .7L Rear Axle Center Bowl - 15-Qt 14.2L Wheel Ends (ea.) 1.6-Qt. 1.5L		—	580L Series 2, 580 Super L Series 2
—	No. 1 Multi Grade	—	Front Drive Axle 135H EP (85W140) Center Bowl 7.4-Qt 7L Planetary Ends (Each) 1.1-Qt 1L		—	590

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
590 Super L	Hy-Tran Ultra Tank Refill 14.4-Gal 54.5L w/Filter Change 13.9-Gal 52.6L w/o Filter Change	—	Hy-Tran Ultra 2WD 19.5-Qt 18.5L Total 16.9-Qt 16.1L Refill 4WD 22-Qt 21L Total 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade — 11.6-Qt 11L	
590 Super L Series 2	Hy-Tran Ultra Tank Refill 58-Qt 55L w/Filter change 56-Qt 53L w/o Filter change Total System 137-Qt 130L plus 6-Qt 5.7L f/Extendahoe	—	Hy-Tran Ultra (Std. & Powershift Trans.) 2WD 19.5-Qt 18.5L Total 16.9-Qt 16L Refill 4WD 22-Qt 21L Total 19.5-Qt 18.5L Refill	—	No. 1 Multi Grade — 11.6-Qt 11L	
680CK						
Prior to S/N 9101501	Hy-Tran Ultra 8-Gal 30.2L	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 28-Qt 26.5L w/Differential	Hy-Tran Ultra 5-Qt 4.7L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 8-Qt 7.5L 9-Qt 8.5L	
S/N 9101501 to S/N 9102281	Hy-Tran Ultra 6.75-Gal 25.5L	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 28-Qt 26.5L w/Differential	Hy-Tran Ultra 5-Qt 4.7L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 8-Qt 7.5L 9-Qt 8.5L	

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Model
	Diesel	Gas	Differentials	Planetaries	Misc.	
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Multi Grade	—	Case Transaxle Fluid Front Drive Axle Center Bowl 6.9-Qt 6.5L Wheel Ends (ea.) 1.1-Qt 1L Case Transaxle Fluid (Axle No. 127599A2) Hy-Tran Ultra (Axle No. 127599A3 & After) Rear Axle Center Bowl - 15-Qt 14.2L Wheel Ends (ea.) 2.1-Qt 2L		—	590 Super L
—	No. 1 Multi Grade	—	Hy-Tran Ultra Front Drive Axle Center Bowl 7.9-Qt 6.5L Wheel Ends (ea.) 1.05-Qt 1L Rear Axle Center Bowl 15-Qt 14L Wheel Ends (ea.) 2.1-Qt 2L		—	590 Super L Series 2
—	No. 1 Single Grade	Low Ash Single Grade	w/Transmission		—	680CK Prior to S/N 9101501
—	No. 1 Single Grade	Low Ash Single Grade	w/Transmission		—	S/N 9101501 to S/N 9102281

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
680B - S/N 9102281 to S/N 9105872	Hy-Tran Ultra 17.5-Gal 66.2L Total System 9-Gal 34L Refill	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 28-Qt 26.5L w/Differential	Hy-Tran Ultra 11-Qt 10.4L	No. 1 Single Grade 8-Qt 7.5L    9-Qt 8.5L	
680C S/N 9105872 to S/N 9110008	Hy-Tran Ultra 35-Gal 132L Total System 9-Gal 34L Refill	Hy-Tran Ultra 1-Qt .94L	135H EP (85W140) 6.5-Qt 6.1L w/Synch	Hy-Tran Ultra 12-Qt 11.3L	No. 1 Single Grade 1-Qt 9.4L    11-Qt 10.4L	
S/N 9110009 & After	Hy-Tran Ultra 35-Gal 132L Total System 13.8- Gal 52.2L Refill	w/Hyd.	135H EP (85W140) 6.5-Qt 6.1L w/Synch	Hy-Tran Ultra 12-Qt 11.3L	No. 1 Single Grade 1-Qt 9.4L    11-Qt 10.4L	
680E	Hy-Tran Ultra 35-Gal 132L Total System 13.8- Gal 52.2L Refill	w/Hyd.	135H EP (85W140) 6.5-Qt 6.1L w/Synch	Hy-Tran Ultra 12-Qt 11.3L	No. 1 Single Grade 1-Qt 9.4L    11-Qt 10.4L	
680G	Hy-Tran Ultra 13.8-Gal 52.5L Refill	w/Hyd.	135H EP (85W140) 6.4-Pt 3L 4 Sp. Transaxle	Hy-Tran Ultra 12-Qt 11.3L	No. 1 Single Grade 1-Qt 9.4L    11-Qt 10.4L	
680H	Hy-Tran Ultra 40.8-Gal 154L Total System 14.2-Gal 54L Tank Refill w/Filter 13.6-Gal 51L Tank Refill w/o Filter	—	Hy-Tran Ultra 16-Qt 15.1L	w/ Transmission	No. 1 Single Grade 16-Qt 15.1L    17-Qt 16.1L	
680K	Hy-Tran Ultra Tank Refill w/Filter 14.2-Gal 53.8L Tank Refill w/o Filter 13.6-Gal 51.5L	—	Hy-Tran Ultra 16-Qt 15.1L	—	No. 1 Multi Grade —    15-Qt 14.2L	

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner		Final Drive			Misc.	Model
	Diesel	Gas	Differentials	Planetaries			
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>							
—	No. 1 Single Grade	—	w/Transmission			—	680B - S/N 9102281 to S/N 9105872
—	No. 1 Single Grade	—	135H EP (85W140) 12.5-Qt 11.8L	135H EP (85W140) 2.5-Qt 2.3L		—	680C S/N 9105872 to S/N 9110008
—	No. 1 Single Grade	—	135H EP (85W140) 13.5-Qt 12.7L	135H EP (85W140) 1.5-Qt 1.4L		—	S/N 9110009 & After
—	No. 1 Single Grade	—	135H EP (85W140) 13.5-Qt 12.7L	135H EP (85W140) 1.5-Qt 1.4L		—	680E
—	No. 1 Single Grade	—	135H EP (85W140) 13.5-Qt 12.7L	135H EP (85W140) 3-Pt 1.4L		—	680G
—	No. 1 Single Grade	—	135H EP (85W140) 8-Qt 7.5L	135H EP (85W140) 4-Pt 1.9L (Each)		—	680H
—	No. 1 Single Grade	—	135H EP (85W140) Rear Axle Center Bowl 8-Qt 7.6L	135H EP (85W140) Planetary Ends (Each) 2-Qt 1.9L		Asch. Evap. 1-Pt .47L	680K

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

### Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
680L	Hy-Tran Ultra Tank Refill w/Filter 19.5-Gal 73.8L w/o Filter 18.9-Gal 71.5L	—	Hy-Tran Ultra 16-Qt 15.1L	—	No. 1 Multi Grade — 16-Qt 15.1L	
<b>780CK</b>						
Prior to S/N 5500550	Hy-Tran Ultra 57-Gal 215L Total System 13-Gal 49.2L Refill	w/Hyd.	Hy-Tran Ultra 5-Gal 18.9L	w/ Transmission	No. 1 Single Grade 9-Qt 8.5L 10-Qt 9.4L	
S/N 5500550 & After	Hy-Tran Ultra 57-Gal 215L Total System 25-Gal 94.6L Refill	w/Hyd.	Hy-Tran Ultra 5-Gal 18.9L	w/ Transmission	No. 1 Single Grade 10-Qt 9.4L 11-Qt 10.4L	
780B	Hy-Tran Ultra 48-Gal 182L Total System 19.5-Gal 74L Tank Refill w/Filter 18.9-Gal 71.5L w/o Filter	—	Hy-Tran Ultra 16-Qt 15.1L	w/ Transmission	No. 1 Single Grade 16-Qt 15.1L 17-Qt 16.1L	
780C	Hy-Tran Ultra Tank Refill w/Filter 19.5-Gal 73.8L w/o Filter 18.9-Gal 71.5L	w/Hyd.	Hy-Tran Ultra 16-Qt 15.1L	w/ Transmission	No. 1 Single Grade — 16-Qt 15.1L	

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner Diesel	Gas	Final Drive Differentials	Planetaries	Misc.	Model
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Multi Grade	—	Rear Axle Case Transaxle Fluid 18-Qt 17L Center Bowl Front Drive Axle (4 sp.) 135H EP (85W140) 17-Qt 16L Center Bowl Front Axle (2WD) 135H EP (85W140) —	2.5-Qt 2.4L Planetary Ends (Each)  2.5-Qt 2.4L Planetary Ends (Each)  2.1-Qt 2L Planetary Ends (Each)	—	680L
—	No. 1 Single Grade	—	135H EP (85W140) 8-Qt 7.5L	135H EP (85W140) 7.5-Qt 7L	—	780CK Prior to S/N 5500550
—	No. 1 Single Grade	—	135H EP (85W140) 8-Qt 7.5L	135H EP (85W140) 2.5-Qt 2.3L	—	S/N 5500550 & After
—	No. 1 Single Grade	—	135H EP (85W140) 8-Qt 7.5L	135H EP (85W140) 4-Pt 1.9L (Each)	—	780B
—	No. 1 Single Grade	—	135H EP (85W140) Rear Axle Center Bowl 8-Qt 7.5L	135H EP (85W140) Rear Axle 2-Qt 1.8L (Each)	Alch. Evap. 1-Pt .47L	780C

## Lubricants

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

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Model	Hydraulic Reservoir	Power Steering	Transmission	Torque Converter	Engine Crankcase (pg. 1E-125)	
					w/o Filter	w/Filter
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
780D	Hy-Tran Ultra Tank Refill w/Filter 19.5-Gal 73.8L w/o Filter 18.9-Gal 71.5L	w/Hyd.	Hy-Tran Ultra 16-Qt 15.1L	w/ Transmission	No. 1 Multi Grade —	16-Qt 15.1L

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Torque Tube	Air Cleaner Diesel	Gas	Final Drive Differentials	Planetaries	Misc.	Model
<b>WHEEL TRACTORS (LOADER/BACKHOES)</b>						
—	No. 1 Multi Grade	—	Rear Axle Case Transaxle Fluid		—	780D
			18-Qt 17L Center Bowl Front Drive Axle (4 sp.) 135H EP (85W140)	2.5-Qt 2.4L Planetary Ends (Each)		
			17-Qt 16L Center Bowl Front Axle (2WD) 135H EP (85W140)	2.5-Qt 2.4L Planetary Ends (Each)		
			—	2.1-Qt 2L Planetary Ends (Each)		

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Model	Hydraulic Reservoir	Transmission	Engine Crankcase (pg. 1E-125)	
			w/o Filter	w/Filter
<b>SKID STEERS</b>				
75XT, 85XT	No. 1 Multi Grade w/HTO Additive** System Capacity 16.5-Gal 62.4L	No. 1 Multi Grade Chain Compartments Capacity (each side) 5-Qt 4.7L	No. 1 Multi Grade (10-Qt 9.5L	11-Qt 10.4L
90XT, 95XT	Hy-Tran Ultra System Capacity 17-Gal 64.4L (90XT) 17.5-Gal 66.2L (95XT) Reservoir 6.5-Gal 24.6L (90XT) 7-Gal 26.5L (95XT)	Hy-Tran Ultra Drive Chain Compartments Capacity (each side) 5-Qt 4.7L	No. 1 Multi Grade 10-Qt 9.5L	11-Qt. 10.4L
1526	Hy-Tran Ultra* 19-Gal 71.9L Total 14-Gal 53L Refill	135H EP (85W140) 1.5-Pt .7L	No. 1 Single Grade 6.25-Qt 5.9L	—
1537	Hy-Tran Ultra* 19-Gal 71.9L Total 14-Gal 53L Refill	135H EP (85W140) 1.5-Pt .7L	Low Ash Single Grade 4.5-Qt 4.2L	5-Qt 4.7L
1530, 1530B	Hy-Tran Ultra* 19-Gal 71.9L Total 14-Gal 53L Refill	135H EP (85W140) 1.5-Pt .7L	Low Ash Single Grade 3.5-Qt 3.3L	4-Qt 3.7L
1737, 1737S, 1740	Hy-Tran Ultra* 19-Gal 71.9L Total 14-Gal 53L Refill	135H EP (85W140) 1.5-Pt .7L	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L
1816, 1816B	No. 1 Multi Grade 7-Gal 26.5L Total 3.75-Gal 14.2L Refill - 1816B 4.5-Gal 17L Refill - 1816	—	Low Ash Single Grade 1.6-Qt 15L	—

\* - Do not mix Hy-Tran Ultra with Engine Oil. \*\* - HTO Premix can be used for service fill or top-off.

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Model	Hydraulic Reservoir	Transmission	Engine Crankcase (pg. 1E-125)	
			w/o Filter	w/Filter
<b>SKID STEERS</b>				
1816C	No. 1 Multi Grade w/Filter 15-Qt 14.2L w/o Filter 14-Qt 13.2L	—	Low Ash Single Grade 1.75-Qt 1.6L      2.3-Qt 2.2L	
1818	No. 1 Multi Grade + 5% HTO Additive** w/Filter 23-Qt 21.8L w/o Filter 22-Qt 20.8L Total System 30-Qt 28.4L	No. 1 Single Grade 3-Qt 2.8L Drive Chain	No. 1 Single Grade w/Diesel Engine —      4.9-Qt 4.6L Low Ash Single Grade w/Gasoline Engine —      2.3-Qt 2.2L	
1825	No. 1 Multi Grade + 5% HTO Additive** w/Filter 23-Qt 21.8L w/o Filter 22-Qt 20.8L Total System 30-Qt 28.4L	No. 1 Single Grade 3-Qt 2.8L Drive Chain	No. 1 Single Grade w/Diesel Engine —      6-Qt 5.7L No. 1 Multi Grade w/Gasoline Engine —      3.5-Qt 3.2L	
1825B	No. 1 Multi Grade +5% HTO Additive** w/Filter 23-Qt 21.8L w/o Filter 22-Qt 20.8L Total System 30-Qt 28.4L	No. 1 Multi Grade Drive Chain (each side) 3-Qt 2.8L	No. 1 Multi Grade 6.3Qt 5.96L      6.7-Qt 6.34L	
1830	Hy-Tran Ultra* 8.5-Gal 32.1L Total 7-Gal 26.5L Refill	No. 1 Single Grade 4-Qt 3.7L Drive Chain No. 1 Single Grade 4-Qt 3.7L Drive Chain	No. 1 Single Grade 2.75-Qt 2.6L      3-Qt 2.8L	
1835, 1835B	No. 1 Multi Grade + 5% HTO Additive ** 8-Gal 30.2L Total 6.25-Gal 23.6L Refill	No. 1 Single Grade 6-Qt 5.7L Drive Chain	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 6-Qt 5.7L      7-Qt 6.6L	

\* - Do not mix Hy-Tran Ultra with Engine Oil. \*\* - HTO Premix can be used for service fill or top-off.

# Lubricants

## LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

Model	Hydraulic Reservoir	Transmission	Engine Crankcase (pg. 1E-125)	
			w/o Filter	w/Filter
<b>SKID STEERS</b>				
1835C	No. 1 Multi Grade + 5% HTO Additive** w/Filter 25-Qt 23.7L w/o Filter 24-Qt 22.7L Total System 42-Qt 39.7L	No. 1 Multi Grade 6-Qt 5.7L Drive Chain	No. 1 Multi Grade - Diesel & Gasoline —	6-Qt 5.7L
1838	No. 1 Multi Grade + 5% HTO Additive ** 10.5-Gal 39.7L Total System 6.25-Gal 23.7L w/Filter 6-Gal 22.7L w/o Filter Refill	No. 1 Single Grade 6-Qt 5.7L Drive Chain	No. 1 Multi Grade —	8-Qt 7.6L
1840	No. 1 Multi Grade + 5% HTO Additive** w/Filter 25-Qt 23.7L w/o Filter 24-Qt 22.7L Total System 42-Qt 39.7L	No. 1 Single Grade 5-Qt 4.7L Drive Chain 135H EP (85W140) 1-Pt .5L Gear Planetary	No. 1 Multi Grade —	11-Qt 10.4L
1845, 1845S	Hy-Tran Ultra* 15.5-Gal 59L Total 13-Gal 49L Refill	No. 1 Single Grade 5-Qt 4.7L Drive Chain 135H EP (85W140) 1-Pt .5L Gear Planetary	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 4-Qt 3.7L	5-Qt 4.7L
1845B	Hy-Tran Ultra* 86-Qt 81.4L Total 54-Qt 51.1L Refill	No. 1 Multi Grade 5-Qt 4.7L Drive Chain (Each Side) Prior to P.I.N. JAF0067438 135H EP (85W140) 1-Pt .5L Gear Planetary	No. 1 Single Grade - Diesel Low Ash Single Grade - Gasoline 6-Qt 5.7L	7-Qt 6.6L
1845C	No. 1 Multi Grade + 5% HTO Additive** 10.5-Gal 39.7L Total System w/Filter 8.5-Gal 32.2L w/o Filter 8.25-Gal 31.2L Refill P.I.N. JAF0067438 & After	No. 1 Multi Grade 5-Qt 4.7L Drive Chain (Each Side) Prior to P.I.N. JAF0067438 135HEP (85W140) 1-Pt .5L Gear Planetary	No. 1 Multi Grade 10-Qt 9.5L	11-Qt 10.4L

\* - Do not mix Hy-Tran Ultra with Engine Oil. \*\* - HTO Premix can be used for service fill or top-off.

### LUBRICANT APPLICATION & CAPACITY GUIDE

Refer to Operator's Manual for Selection of Crankcase Oil Grade

LUBRICANTS			
LUBRICANT APPLICATION & CAPACITY GUIDE			
CRANKCASE LUBRICANTS			
Air Temperature (A)	SAE Grade	Oil Change Hours	Filter Change Hours
<b>DIESEL ENGINES (SINGLE GRADES)</b>			
Above +32°F	No. 1 SAE30 Note: Do not substitute SAE 10W30 or 10W40	100 (B)	200
Above -10°F to +32°F	No. 1 SAE10W Note: Do not substitute SAE 10W30 or 10W40.	100 (B)	200
<b>DIESEL ENGINES (MULTI GRADES)</b>			
0°F to +130°F	No. 1 SAE 20W50	250	250
Above -10°F to +104°F	No. 1 SAE 15W40	250	250
Above -20°F to +55°F	No. 1 SAE 10W30	250	250
-45°F to +10°F	No. 1 SAE 0W30	250	250
<b>GASOLINE, LPG AND /OR NATURAL GAS ENGINES</b>			
Above +32°F	Low Ash SAE30 Note: Do not substitute SAE 10W30 or 15W40.	100 (B)	100
Above -10°F to +32°F	Low Ash SAE10W Note: Do not substitute SAE 10W30 or 15W40.	100 (B)	100
<p>(A) The selection of crankcase lubricating oil should be based on the lowest anticipated temperature for the day. It is not necessary to change the crankcase oil every time the temperature rises or falls into another temperature range during some part of the 24-hour day.</p> <p>B) When No. 1 Engine Oil, SAE 10W or SAE 30, is used, the oil change period may be extended to 200 hours.</p>			

**NOTE: Case Lubricant Application Chart for "all-makes" equipment has been removed from this publication. That information is now available separately under Form No. PM-5092 which can be ordered through DMC.**

## PART NUMBER INDEX

Part No.	Page No.s	Part No.	Page No.s	Part No.	Page No.s	Part No.	Page No.s
104104A1	1E-7	219-404	1E-41	219-49	1E-42	407414R2	1E-7
104106A1	1E-7	219-405	1E-41	219-60	1E-42	407420R2	1E-7
104108A1	1E-7	219-45	1E-41	219-66	1E-42	407486R1	1E-22
10W30	1E-11	219-33	1E-41	219-81	1E-43	407515R1	1E-26
110891H	1E-43	219-46	1E-41	219-82	1E-43	407516R1	1E-26
1131055R2	1E-32	219-2	1E-41	219-416	1E-43	407517R1	1E-26
1131916R1	1E-23	219-401	1E-41	219-402	1E-43	547596R1	1E-23
116799A1	1E-16	219-22	1E-41	128274	1E-41	557159R91	1E-40
116800A1	1E-16	219-48	1E-41	271293	1E-41	999597R7	1E-12
132095A1	1E-26	219-35	1E-41	271294	1E-42	999655R7	1E-12
132096A1	1E-25	219-6	1E-41	273348	1E-41	999676R91	1E-34
132097A1	1E-25	219-86	1E-41	20810R1	1E-43	999677R91	1E-32
132098A1	1E-25	219-30	1E-41	221140C1	1E-33	999805R91	1E-34
139029A2	1E-12	219-1	1E-41	236610A2	1E-12	999809R92	1E-33
139030A1	1E-17	219-3	1E-41	253782A1	1E-7	999811R1	1E-33
139032A1	1E-7	219-5	1E-41	282371A1	1E-16	999818R91	1E-34
139033A1	1E-7	219-20	1E-41	298053A1	1E-19	999819R91	1E-33
139034A1	1E-7	219-8	1E-41	310233A1	1E-16	999997R92	1E-32
139037A1	1E-9	219-87	1E-41	324108R91	1E-33	B17508	1E-19
141941A2	1E-12	219-12	1E-41	358379A1	1E-22	B17632	1E-18
	1E-14	219-10	1E-41	362649A1	1E-16	B17639	1E-15
143945A2	1E-12	219-23	1E-41	368847A1	1E-28	B500401	1E-11
143947A1	1E-7	219-11	1E-41	368848A1	1E-28	B500418	1E-27
143949A1	1E-7	219-417	1E-41	372253A1	1E-7	B500419	1E-27
156576C91	1E-23	219-25	1E-41	372254A1	1E-7	B500420	1E-27
18425R91	1E-43	219-27	1E-41	372255A1	1E-11	B500648	1E-32
18935K	1E-40	219-92	1E-42	372705R7	1E-12	B505076	1E-35
1990330C1	1E-33	219-89	1E-42	384646R1	1E-24	B505077	1E-35
218-5065	1E-33	219-55	1E-42	407205R1	1E-34	B505078	1E-35
219-413	1E-40	219-40	1E-42	407277R2	1E-34	B505079	1E-36
219-411	1E-40	219-36	1E-42	407340R3	1E-9	B505080	1E-36
219-410	1E-40	219-31	1E-42	407344R3	1E-9	B505081	1E-36
219-406	1E-40	219-41	1E-42	407345R3	1E-9	B505082	1E-36
219-17	1E-40	219-56	1E-42	407350R3	1E-9	B505226	1E-24
219-13	1E-40	219-42	1E-42	407351R3	1E-9	B53977	1E-17
219-403	1E-40	219-400	1E-42	407352R4	1E-7	B90940	1E-24
219-14	1E-40	219-93	1E-42	407356R4	1E-7	B91241V	1E-28
219-98	1E-40	219-57	1E-42	407357R4	1E-7	B91244	1E-22
219-16	1E-40	219-43	1E-42	407360R4	1E-7	B91246	1E-21
219-15	1E-40	219-90	1E-42	407362R4	1E-7	B91443	1E-21
219-53	1E-41	219-37	1E-42	407408R1	1E-23	B91459A	1E-30
		219-38	1E-42	407410R2	1E-7	B91467	1E-30
						B91468	1E-30

### PART NUMBER INDEX

<b>Part No.</b>	<b>Page No.s</b>	<b>Part No.</b>	<b>Page No.s</b>
B91469	1E-30	ZWH100MSB	1E-47
B91470	1E-30	ZWH300W	1E-47
B91471	1E-30	ZWH300WCS	1E-47
B91472	1E-30	ZWH300WHS	1E-47
B91473	1E-30	ZWH999	1E-47
B91474	1E-30	ZWHS2CS	1E-47
B91475	1E-30	ZWHS2EB	1E-47
B91476	1E-30	ZWHS2H	1E-47
B91477	1E-30		
B91478	1E-30		
B91479	1E-30		
B91480	1E-30		
B91481	1E-30		
B91482	1E-30		
B91483	1E-30		
B91484	1E-30		
B91485	1E-30		
B91486	1E-30		
B91487	1E-30		
B91488	1E-30		
B91489	1E-30		
B91490	1E-30		
B91491	1E-30		
B91492	1E-30		
B91493	1E-30		
B91494	1E-30		
B91495	1E-30		
B91496	1E-30		
B91497	1E-30		
B91498	1E-30		
B91511	1E-30		
B91571	1E-30		
B91573	1E-30		
B92095	1E-27		
CC2546W5	1E-44		
CC2547W5	1E-44		
D28957	1E-33		
D28958	1E-33		
K622251	1E-41		
M20903B	1E-44		
M20904B	1E-44		
S118631	1E-15		

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**Lubricants**

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