

**845B / 845B DHP**  
**865B / 865B VHP / 865B AWD**  
**885B / 885B DHP / 885B AWD**  
Grader

**SERVICE MANUAL**

**Part number 71114392**

English  
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# Section 1001

1001

## STANDARD TORQUE ESPECIFICACIONES

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**NOTE:** CASE reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

## TORQUE SPECIFICATIONS

### Decimal

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

GRADE 5 BOLTS, NUTS AND STUDS		
		
Size (inch)	Pound-Inches	N.m
1/4	9 - 11	12 - 15
5/16	17 - 21	23 - 28
3/8	35 - 42	48 - 57
7/16	54 - 64	73 - 87
1/2	80 - 96	109 - 130
9/16	110 - 132	149 - 179
5/8	150 - 180	203 - 244
3/4	270 - 324	366 - 439
7/8	400 - 480	542 - 651
1.0	580 - 696	787 - 944
1-1/8	800 - 880	1085 - 1193
1-1/4	1120 - 1240	1519 - 1681
1-3/8	1460 - 1680	1980 - 2278
1-1/2	1940 - 2200	2631 - 2983


GRADE 8 BOLTS, NUTS AND STUDS		
		
Size (inch)	Pound-Inches	N.m
1/4	12 - 15	16 - 20
5/16	24 - 29	33 - 39
3/8	45 - 54	61 - 73
7/16	70 - 84	95 - 114
1/2	110 - 132	149 - 179
9/16	160 - 192	217 - 260
5/8	220 - 264	298 - 358
3/4	380 - 456	515 - 618
7/8	600 - 720	814 - 976
1.0	900 - 1080	1220 - 1465
1-1/8	1280 - 1440	1736 - 1953
1-1/4	1820 - 2000	2468 - 2712
1-3/8	2380 - 2720	3227 - 3688
1-1/2	3160 - 3560	4285 - 4827


**NOTE:** Use thick nuts with Grade 8 bolts.




## Métric

Use the following torques when specifications are not given. These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

<b>GRADE 8.8 BOLTS, NUTS AND STUDS</b>		
		
Size (inch)	Pound-Inches	N.m
<b>M4</b>	2 - 3	3 - 4
<b>M5</b>	5 - 6	6.5 - 8
<b>M6</b>	8 - 9	10.5 - 12
<b>M8</b>	19 - 23	26 - 31
<b>M10</b>	38 - 45	52 - 61
<b>M12</b>	66 - 79	90 - 107
<b>M14</b>	106 - 127	144 - 172
<b>M16</b>	160 - 200	217 - 271
<b>M20</b>	320 - 380	434 - 515
<b>M24</b>	500 - 600	675 - 815
<b>M30</b>	920 - 1100	1250 - 1500
<b>M36</b>	1600 - 1950	2175 - 2600

<b>GRADE 10.9 BOLTS, NUTS AND STUDS</b>		
		
Size (inch)	Pound-Inches	N.m
<b>M4</b>	3 - 4	4 - 5
<b>M5</b>	7 - 8	9.5 - 11
<b>M6</b>	11 - 13	15 - 17.5
<b>M8</b>	27 - 32	37 - 43
<b>M10</b>	54 - 64	73 - 87
<b>M12</b>	93 - 112	125 - 152
<b>M14</b>	149 - 179	300 - 245
<b>M16</b>	230 - 280	310 - 380
<b>M20</b>	450 - 540	610 - 730
<b>M24</b>	780 - 940	1050 - 1275
<b>M30</b>	1470 - 1770	2000 - 2400
<b>M36</b>	2580 - 3090	3500 - 4200

<b>GRADE 12.9 BOLTS, NUTS AND STUDS</b>		
		
Usually the torque values specified for grade 10.9 fasteners. can be used satisfactorily on grade 12.9 fasteners.		

## Steel Hydraulic Fittings

Tube OD Hose ID	Thread Size	Pound- Inches	N.m
<b>37 DEGREE FLARE FITTING</b>			
1/4" (6.4 mm)	7/16 - 20	6 - 12	8 - 16
5/16" (7.9 mm)	1/2 - 20	8 - 16	11 - 22
3/8" (9.5 mm)	9/16 - 18	10 - 20	14 - 34
1/2" (12.7 mm)	3/4 - 16	15 - 42	20 - 56
5/8" (15.9 mm)	7/8 - 14	25 - 58	34 - 78
3/4" (19.0 mm)	1-1/16 - 12	40 - 80	54 - 108
7/8" (22.2 mm)	1-3/16 - 12	60 - 100	81 - 135
1.0" (25.4 mm)	1-5/16 - 12	75 - 117	102 - 158
1-1/4" (31.8 mm)	1-5/8 - 12	125 - 165	169 - 223
1-1/2" (38.1 mm)	1-7/8 - 12	210 - 250	285 - 338

Tube OD Hose ID	Thread Size	Pound- Inches	N.m
<b>STRAIGHT THREADS WITH O-RING</b>			
1/4" (6.4 mm)	7/16 - 20	12 - 19	16 - 25
5/16" (7.9 mm)	1/2 - 20	16 - 25	22 - 34
3/8" (9.5 mm)	9/16 - 18	25 - 40	34 - 54
1/2" (12.7 mm)	3/4 - 16	42 - 67	57 - 90
5/8" (15.9 mm)	7/8 - 14	58 - 92	79 - 124
3/4" (19.0 mm)	1-1/16 - 12	80 - 128	108 - 174
7/8" (22.2 mm)	1-3/16 - 12	100 - 160	136 - 216
1.0" (25.4 mm)	1-5/16 - 12	117 - 187	159 - 253
1-1/4" (31.8 mm)	1-5/8 - 12	165 - 264	224 - 357
1-1/2" (38.1 mm)	1-7/8 - 12	250 - 400	339 - 542

<b>SPLIT FLANGE MOUNTING BOLTS</b>		
Size (inch)	Pound-Inches	N.m
5/16 - 18	15 - 20	20 - 27
3/8 - 16	20 - 25	27 - 34
7/16 - 14	35 - 45	47 - 61
1/2 - 13	55 - 65	74 - 88
5/8 - 11	140 - 150	190 - 203

## Steel Hydraulic Fittings

Nom. SAE Dash Size	Tube OD INCH (mm)	Thread Size	Pound-Inches	N.m	Thread Size	Pound-Inches	N.m
<b>O-RING FACE SEAL END</b>					<b>O-RING BOSS END FITTING OR LOCK NUT</b>		
- 4	1/4 (6.4)	9/16-18	10 - 12	14 - 16	7/16-20	17 - 20	23 - 27
-6	3/8 (9.5)	11/16-16	18 - 20	24 - 27	9/16-18	25 - 30	34 - 41
-8	1/2 (12.7)	13/16-16	32 - 40	43 - 54	3/4-16	45 - 50	61 - 68
-10	5/8 (15.9)	1 - 14	46 - 56	62 - 75	7/8-14	60 - 65	81 - 88
-12	3/4 (19.0)	1-3/16-12	65 - 80	90 - 110	1-1/16-12	85 - 90	115 - 122
-14	7/8 (22.2)	1-3/16-12	65 - 80	90 - 110	1-3/16-12	95 - 100	129 - 136
-16	1.0 (25.4)	1-7/16-12	92 - 105	125 - 140	1-5/16-12	115 - 125	156 - 169
-20	1-1/4 (31.8)	1-11/16-12	125 - 140	170 - 190	1-5/8-12	150 - 160	203 - 217
-24	1-1/2 (38.1)	2-12	150 - 180	200 - 254	1-7/8-12	190 - 200	258 - 271

# Section 1002

FLUIDS AND LUBRICANTS

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## FLUIDS AND LUBRICANTS

### 845B / 865B / 885B Models Equipped with Tier 0, 1 and 2 Engines

COMPONENTS	CAPACITY		SPECIFICATIONS
	Liters	US Gal.	
<b>Fuel tank</b>			
Total capacity	341,0	90,0	N° 2 DIESEL
<b>Engine oil</b>			
<b>Engine Tier 1 (845B Models)</b>			
With filter change	16,4	4,3	N°1 ENGINE OIL (1030190)
Without filter change	14,2	3,7	
<b>Engine Tier 0 and Tier 2 (865B / 885B Models)</b>			
With filter change	21,1	5,5	N°1 ENGINE OIL (1030190)
Without filter change	18,9	4,8	
<b>Engine Cooling System</b>			
Total capacity	40,0	10,5	50% Water + 50% AKCELA PREMIUM ANTI FREEZE (1060077)
<b>Hydraulic System</b>			
Total capacity	180,0	47,5	AKCELA HY-TRAN ULTRA
Hydraulic tank with filter	90,0	23,8	
<b>Transmission</b>			
<b>845B / 865B Models with ZF transmission</b>			
Refill capacity (with filter change)	26,0	6,9	N°1 ENGINE OIL (1030190)
Refill capacity (without filter change)	25,0	6,6	
<b>885B Models with FUNK transmission</b>			
Refill capacity (with filter change)	28,5	7,5	AKCELA HY-TRAN ULTRA (1040184) MAT 3505 (MS 1209)
Refill capacity (without filter change)	26,0	6,9	
<b>Rear Axle</b>			
<b>845B Models</b>			
Center compartment	40,0	10,5	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>865B / 885B Models</b>			
Center compartment	44,0	11,6	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>Tandem and Brakes</b>			
Refill capacity (each)	60,0	15,8	AKCELA TRANSAXLE FLUID SAE 20W-40
<b>Circle Turn Gear Reducer</b>			
Refill capacity	2,80	0,75	AKCELA GEAR 135HEP SAE 80W90 (1050135)
<b>Grease Fittings</b>			
Rear Ripper, Scarifier or Dozer Blade	-	-	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease
Front Axle Wheel Hub and Bearings	-	-	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease

## 845B DHP / 865B VHP / 885B DHP Models Equipped with Tier 3 Engines

COMPONENTS	CAPACITY		SPECIFICATIONS
	Liters	US Gal.	
<b>Fuel tank</b>			
Total capacity	341,0	90,0	Nº 2 DIESEL
<b>Engine oil</b>			
<b>Engine Tier 3 (845B DHP/ 865B VHP/ 885B DHP Models)</b>			
With filter change	18,5	4,7	Nº1 ENGINE OIL (1030190)
Without filter change	17,5	4,4	
<b>Engine Cooling System</b>			
Total capacity	40,0	10,5	50% Water + 50% AKCELA PREMIUM ANTI FREEZE (1060077)
<b>Hydraulic System</b>			
Total capacity	180,0	47,5	AKCELA HY-TRAN ULTRA
Hydraulic tank with filter	90,0	23,8	
<b>Transmission</b>			
<b>845B DHP / 865B VHP Models with ZF transmission</b>			
Refill capacity (with filter change)	26,0	6,9	Nº1 ENGINE OIL (1030190)
Refill capacity (without filter change)	25,0	6,6	
<b>845B DHP / 865B VHP Models with FUNK transmission</b>			
Refill capacity (with filter change)	25,0	6,6	AKCELA HY-TRAN ULTRA (1040184) MAT 3505 (MS 1209)
Refill capacity (without filter change)	23,0	6,0	
<b>885B DHP Models with FUNK transmission</b>			
Refill capacity (with filter change)	28,5	7,5	AKCELA HY-TRAN ULTRA (1040184) MAT 3505 (MS 1209)
Refill capacity (without filter change)	26,0	6,9	
<b>Rear Axle</b>			
<b>845B DHP Models</b>			
Center compartment	40,0	10,5	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>865B VHP / 885B DHP Models</b>			
Center compartment	44,0	11,6	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>Tandem and Brakes</b>			
Refill capacity (each)	60,0	15,8	AKCELA TRANSAXLE FLUID SAE 20W-40
<b>Circle Turn Gear Reducer</b>			
Refill capacity	2,80	0,75	AKCELA GEAR 135HEP SAE 80W90 (1050135)
<b>Grease Fittings</b>			
Rear Ripper, Scarifier or Dozer Blade	–	–	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease
Front Axle Wheel Hub and Bearings	–	–	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease

## 865B AWD / 885B AWD Models Equipped with Tier 3 Engines

COMPONENTS	CAPACITY		SPECIFICATIONS
	Liters	US Gal.	
<b>Fuel tank</b>			
Total capacity	341,0	90,0	Nº 2 DIESEL
<b>Engine oil</b>			
With filter change	18,5	4,7	Nº1 ENGINE OIL (1030190)
Without filter change	17,5	4,4	
<b>Engine Cooling System</b>			
Total capacity	40,0	10,5	50% Water + 50% AKCELA PREMIUM ANTI FREEZE (1060077)
<b>Hydraulic System</b>			
Total capacity	200,0	47,5	AKCELA AW HYDRAULIC FLUID 68 HV (MS 1216)
Hydraulic tank with filter	90,0	23,8	
<b>Transmission</b>			
<b>865B AWD Models</b>			
Refill capacity (with filter change)	25,0	6,6	AKCELA HY-TRAN ULTRA (1040184) MAT 3505 (MS 1209)
Refill capacity (without filter change)	23,0	6,0	
<b>885B AWD Models</b>			
Refill capacity (with filter change)	28,5	7,5	AKCELA HY-TRAN ULTRA (1040184) MAT 3505 (MS 1209)
Refill capacity (without filter change)	26,0	6,9	
<b>Rear Axle</b>			
Center compartment	44,0	11,6	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>Tandem and Brakes</b>			
Refill capacity (each)	60,0	15,8	AKCELA TRANSAXLE FLUID SAE 20W-40
<b>Circle Turn Gear Reducer</b>			
Refill capacity	2,80	0,75	AKCELA GEAR 135HEP SAE 80W90 (1050135)
<b>Front Wheel Reducer</b>			
Refill capacity	4,10	1,00	AKCELA AXLEPOWER SAE 80W-90 API GL5 Limited Slip
<b>Grease Fittings</b>			
Rear Ripper, Scarifier or Dozer Blade	–	–	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease
Front Axle Wheel Hub and Bearings	–	–	AKCELA MOLYGREASE (1070173) CASE molydisulfide grease



# RECOMENDAÇÕES DE VISCOSIDADE DO ÓLEO E FLUIDOS

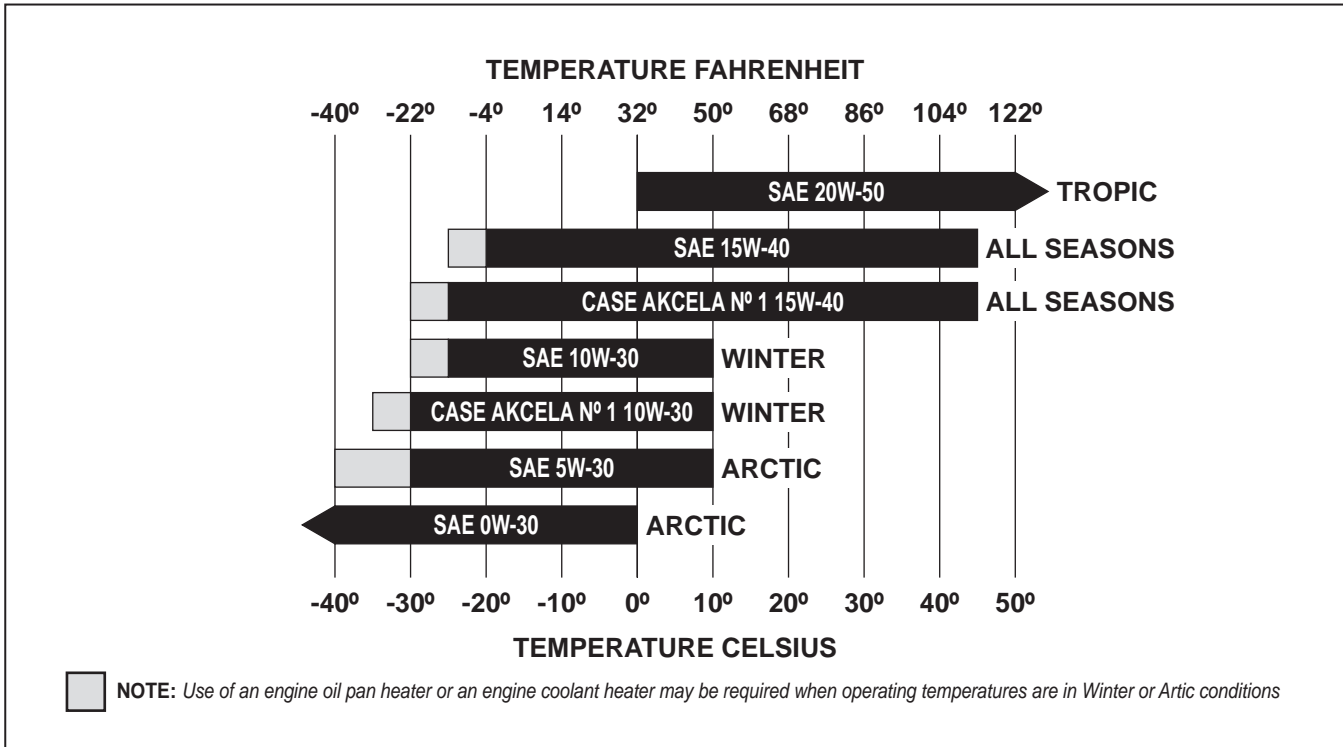
## Oil Viscosity and Temperature Ranges

Case No. 1 Engine Oil is recommended for use in your Case Engine. Case Engine Oil will lubricate your engine correctly under all operating conditions.

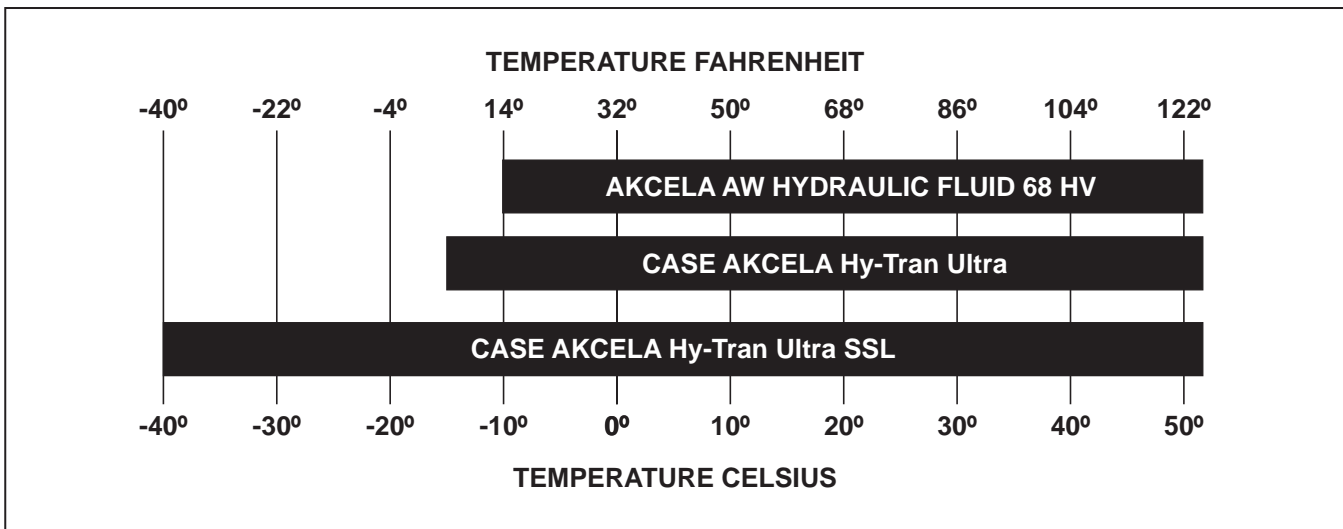
If Case Multi-Viscosity Engine Oil is not available, use only oil meeting API engine oil service category CH-4 (preferred) or CG-4.

See the chart on following page for recommended viscosity at ambient air temperature ranges.

**NOTE:** Do not put Performance Additives or other oil additive products in the engine crankcase. The oil change intervals given in this manual are according to tests with CASE lubricants.



## Hydraulic / Brake / Transmission System – Temperature Ranges



## FUEL

### Diesel Fuel

Use No. 2 Diesel fuel in the engine of this machine. The use of other fuels can cause the loss of engine power and high fuel consumption.

In very cold temperatures, a mixture of No. 1 and No. 2 Diesel fuels is temporarily permitted. See the following note.

**NOTE:** See your fuel dealer for winter fuel requirements in your area. If the temperature of the fuel lowers below the cloud point (wax appearance point), wax crystals in the fuel will cause the engine to lose power or not to start.

The Diesel fuel used in this machine must meet the specifications in the chart below or Specification D975-81 of the American Society for Testing and Materials.

### Fuel Storage

If you keep fuel in storage for a period of time, you can get foreign material or water in the fuel storage tank. Many engine problems are caused by water in the fuel.

Keep the fuel storage tank outside and keep the fuel as cool as possible. Remove water from the storage container at regular periods of time.

Fill the fuel tank at the end of the daily operating period to prevent condensation in the fuel tank.

### Specifications for Acceptable No. 2 Diesel Fuel

API gravity, minimum .....	34
Flash point, minimum .....	60°C (140°F)
Cloud point (wax appearance point), maximum .....	-20°C (-5°F) (*)
Pour point, maximum .....	-26°C (-15°F) (*)
Distillation temperature, 90% point .....	282 to 338°C (540 to 640°F)
Viscosity, at 38° C (100° F)	
Centistokes .....	2,0 to 4,3
Saybolt Seconds Universal .....	32 to 40
Cetane number, minimum .....	43 (45 to 55 for winter or high altitudes)
Water and sediment, by volume, maximum .....	0,05 %

\* see note "Diesel Fuel" on this page.

## LUBRICATION & MAINTENANCE CHART

### 845B / 865B / 885B Models Equipped with Tier 0, 1 and 2 Engines

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
As needed	Air cleaner (Note 1)	1	*				
	Hydraulic filter (Note 2)	1	*				
	Cab Air Filter (if equipped)	1	*				
	Batteries (See Electrical System)	2					*
10 hours or daily	Engine oil level (including filters)	1	10				
	Radiator (coolant level) (Note 3)	1	10				
	Transmission oil level (warm, engine running) (ZF and FUNK Transmission)	1	10				
	Differential Lock Oil Filter (if equipped)	1	10				
50 hours or weekly	Fuel Reservoir Filter (wash screen)	1					50
	Fuel Water Separator (drain water)	2					50
	Hydraulic tank (complete system)	1	50				
100 hours or each 15 days	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
	Articulation of Tilt Cylinders	2			100		
	Moldboard Tilt Pivots	2			100		
	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
250 hours or monthly	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (if equipped)	1		250			
	Front Axle Pivot	2			250		
	Front Wheel Lean Bar Pivots	2			250		
	Front Wheel Lean Cylinder Pivots	2			250		
	Front Wheel Knuckle Lean Pivots	4			250		
	Knucle King Pin Bearings	4			250		
	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
	Moldboard Side Shift Pivots	2			250		
	Engine Oil and Oil Filter	2		250			

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
500 hours or each 3 months	Fuel Filters and Water Separator	2		500			
	Fuel Tank Drain Plug (drain sediment)	1					500
	Hydraulic System Oil Filter	1		500			
	Transmission Oil and Oil Filter (Note 4) (ZF Transmission – 845B / 865B models)	1		500			
	Transmission Oil and Oil Filter (FUNK Transmission – 885B models)	2		500			
	Front Wheel Bearing Grease	2		500			
	Tandem Wheel Shafts Bearings (Graziano)	8			500		
	Tandem Case Oil Level	2	500				
	Rear Axle Differential and Planetary Gear Oil Level (Graziano)	1	500				
	ROPS Fixing Bolts Torque	16				500	
	Seat Belts Fixing Bolts Torque	2				500	
1000 hours or each 6 months	Transmission Screen (FUNK Transmission – 885B models)	1					1000
	Transmission Oil (Note 4) (ZF Transmission – 845B / 865B models)	1		1000			
	Transmission Oil (FUNK Transmission – 885B models)	1		1000			
	Engine Valves Clearance	12				1000	
	Circle Turn Gear Housing Oil	1		1000			
	Alternator and Ar Conditioning Belts	2		1000			
	Air Cleaner Elements (See Air Cleaner System)	2		1000			
	Tandem Case Oil	2		1000			
2000 hours or yearly	Rear Axle Differential and Planetary Gear Oil (Graziano)	1		2000			
	Hydraulic System Oil (Note 5)	1		2000			
	Engine Coolant	2		2000			
	Turbocharger Fixing Bolts Torque	4				2000	

**NOTE:** See “FLUIDS AND LUBRICANTS” table on previous pages for lubricants and fluids detailed specifications and capacities.

**NOTE 1:** Service the air filter elements if air filter restriction indicator (Non - Critical Warnings - YELLOW) show “air filter”.

**NOTE 2:** Service the hydraulic filters if hydraulic filter indicator lamp (Non - Critical Warnings - YELLOW) show “hydraulic filter”.

**NOTE 3:** Check the radiator coolant level if the coolant level warning lamp (Critical Warnings - RED) show “coolant level”.

**NOTE 4:** Change the transmission fluid and replace the filter after the first 100 hours of operation

**NOTE 5:** Change every 2.000 hours or once a year, whichever comes first.

\*: As needed.

## 845B DHP / 865B VHP / 885B DHP Models Equipped with Tier 3 Engines

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
As needed	Air cleaner (Note 1)	1	*				
	Hydraulic filter (Note 2)	1	*				
	Cab Air Filter (if equipped)	1	*				
	Batteries (See Electrical System)	2					*
10 hours or daily	Engine oil level (including filters)	1	10				
	Radiator (coolant level) (Note 3)	1	10				
	Transmission oil level (warm, engine running) (ZF and FUNK Transmission)	1	10				
	Differential Lock Oil Filter (if equipped)	1	10				
50 hours or weekly	Fuel Reservoir Filter (wash screen)	1					50
	Fuel Water Separator (drain water)	2					50
	Hydraulic tank (complete system)	1	50				
100 hours or each 15 days	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
	Articulation of Tilt Cylinders	2			100		
	Moldboard Tilt Pivots	2			100		
	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
250 hours or monthly	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (if equipped)	1		250			
	Front Axle Pivot	2			250		
	Front Wheel Lean Bar Pivots	2			250		
	Front Wheel Lean Cylinder Pivots	2			250		
	Front Wheel Knuckle Lean Pivots	4			250		
	Knucle King Pin Bearings	4			250		
	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
Moldboard Side Shift Pivots	2			250			

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
500 hours or each 3 months	Fuel Filters and Water Separator	2		500			
	Fuel Tank Drain Plug (drain sediment)	1					500
	Engine Oil and Oil Filter	2		500			
	Hydraulic System Oil Filter	1		500			
	Transmission Oil and Oil Filter (Note 4) (ZF Transmission – 845B / 865B models)	1		500			
	Transmission Oil and Oil Filter (FUNK Transmission – 845B / 865B / 885B models)	1		500			
	Front Wheel Bearing Grease	2		500			
	Tandem Wheel Shafts Bearings (Graziano)	8			500		
	Tandem Case Oil Level	2	500				
	Rear Axle Differential and Planetary Gear Oil Level (Graziano)	1	500				
	ROPS Fixing Bolts Torque	16				500	
Seat Belts Fixing Bolts Torque	2				500		
1000 hours or each 6 months	Transmission Screen (FUNK Transmission – 845B / 865B / 885B models)	1					1000
	Transmission Oil (Note 4) (ZF Transmission – 845B / 865B models)	1		1000			
	Transmission Oil (FUNK Transmission – 845B / 865B / 885B models)	1		1000			
	Engine Valves Clearance	12				1000	
	Circle Turn Gear Housing Oil	1		1000			
	Alternator and Ar Conditioning Belts	2		1000			
	Air Cleaner Elements (See Air Cleaner System)	2		1000			
	Tandem Case Oil	2		1000			
2000 hours or yearly	Rear Axle Differential and Planetary Gear Oil (Graziano)	1		2000			
	Hydraulic System Oil (Note 5)	1		2000			
	Engine Coolant	2		2000			
	Turbocharger Fixing Bolts Torque	4				2000	

**NOTE:** See "FLUIDS AND LUBRICANTS" table on previous pages for lubricants and fluids detailed specifications and capacities.

**NOTE 1:** Service the air filter elements if air filter restriction indicator (Non-Critical Warnings – YELLOW) show "air filter".

**NOTE 2:** Service the hydraulic filters if hydraulic filter indicator lamp (Non-Critical Warnings – YELLOW) show "hydraulic filter".

**NOTE 3:** Check the radiator coolant level if the coolant level warning lamp (Critical Warnings – RED) show "coolant level".

**NOTE 4:** Change the transmission fluid and replace the filter after the first 100 hours of operation

**NOTE 5:** Change every 2.000 hours or once a year, whichever comes first.

\*: As needed.