

721F
Tier 4
Wheel Loader

SERVICE MANUAL

Print number 84488413

1st edition English
April 2011



721F Wheel Loader
Service Manual
84488413

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Section 1001

GENERAL TORQUE SPECIFICATIONS

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TORQUE SPECIFICATIONS - DECIMAL HARDWARE

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	Pound-Inches	Newton metres
1/4 inch	108 to 132	12 to 15
5/16 inch	204 to 252	23 to 28
3/8 inch	420 to 504	48 to 57
Size	Pound-Feet	Newton metres
7/16 inch	54 to 64	73 to 87
1/2 inch	80 to 96	109 to 130
9/16 inch	110 to 132	149 to 179
5/8 inch	150 to 180	203 to 244
3/4 inch	270 to 324	366 to 439
7/8 inch	400 to 480	542 to 651
1.0 inch	580 to 696	787 to 944
1-1/8 inch	800 to 880	1085 to 1193
1-1/4 inch	1120 to 1240	1519 to 1681
1-3/8 inch	1460 to 1680	1980 to 2278
1-1/2 inch	1940 to 2200	2631 to 2983


Grade 8 Bolts, Nuts, and Studs		
  		
Size	Pound-Inches	Newton metres
1/4 inch	144 to 180	16 to 20
5/16 inch	288 to 348	33 to 39
3/8 inch	540 to 648	61 to 73
Size	Pound-Feet	Newton metres
7/16 inch	70 to 84	95 to 114
1/2 inch	110 to 132	149 to 179
9/16 inch	160 to 192	217 to 260
5/8 inch	220 to 264	298 to 358
3/4 inch	380 to 456	515 to 618
7/8 inch	600 to 720	814 to 976
1.0 inch	900 to 1080	1220 to 1465
1-1/8 inch	1280 to 1440	1736 to 1953
1-1/4 inch	1820 to 2000	2468 to 2712
1-3/8 inch	2380 to 2720	3227 to 3688
1-1/2 inch	3160 to 3560	4285 to 4827
NOTE: Use thick nuts with Grade 8 bolts.		

TORQUE SPECIFICATIONS - METRIC HARDWARE

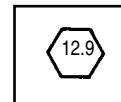
Use the following torques when specifications are not given.

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.

Grade 8.8 Bolts, Nuts, and Studs		
		
Size	Pound-Inches	Newton metres
M4	24 to 36	3 to 4
M5	60 to 72	7 to 8
M6	96 to 108	11 to 12
M8	228 to 276	26 to 31
M10	456 to 540	52 to 61
Size	Pound-Feet	Newton metres
M12	66 to 79	90 to 107
M14	106 to 127	144 to 172
M16	160 to 200	217 to 271
M20	320 to 380	434 to 515
M24	500 to 600	675 to 815
M30	920 to 1100	1250 to 1500
M36	1600 to 1950	2175 to 2600

Grade 10.9 Bolts, Nuts, and Studs		
		
Size	Pound-Inches	Newton metres
M4	36 to 48	4 to 5
M5	84 to 96	9 to 11
M6	132 to 156	15 to 18
M8	324 to 384	37 to 43
Size	Pound-Feet	Newton metres
M10	54 to 64	73 to 87
M12	93 to 112	125 to 150
M14	149 to 179	200 to 245
M16	230 to 280	310 to 380
M20	450 to 540	610 to 730
M24	780 to 940	1050 to 1275
M30	1470 to 1770	2000 to 2400
M36	2580 to 3090	3500 to 4200

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

37 Degree Flare Fitting			
Tube OD Hose ID	Thread Size	Pound- Inches	Newton metres
1/4 inch 6.4 mm	7/16-20	72 to 144	8 to 16
5/16 inch 7.9 mm	1/2-20	96 to 192	11 to 22
3/8 inch 9.5 mm	9/16-18	120 to 300	14 to 34
1/2 inch 12.7 mm	3/4-16	180 to 504	20 to 57
5/8 inch 15.9 mm	7/8-14	300 to 696	34 to 79
Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
3/4 inch 19.0 mm	1-1/16-12	40 to 80	54 to 108
7/8 inch 22.2 mm	1-3/16-12	60 to 100	81 to 135
1.0 inch 25.4 mm	1-5/16-12	75 to 117	102 to 158
1-1/4 inch 31.8 mm	1-5/8-12	125 to 165	169 to 223
1-1/2 inch 38.1 mm	1-7/8-12	210 to 250	285 to 338

Straight Threads with O-ring			
Tube OD Hose ID	Thread Size	Pound- Inches	Newton metres
1/4 inch 6.4 mm	7/16-20	144 to 228	16 to 26
5/16 inch 7.9 mm	1/2-20	192 to 300	22 to 34
3/8 inch 9.5 mm	9/16-18	300 to 480	34 to 54
1/2 inch 12.7 mm	3/4-16	540 to 804	57 to 91
Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
5/8 inch 15.9 mm	7/8-14	58 to 92	79 to 124
3/4 inch 19.0 mm	1-1/16-12	80 to 128	108 to 174
7/8 inch 22.2 mm	1-3/16-12	100 to 160	136 to 216
1.0 inch 25.4 mm	1-5/16-12	117 to 187	159 to 253
1-1/4 inch 31.8 mm	1-5/8-12	165 to 264	224 to 357
1-1/2 inch 38.1 mm	1-7/8-12	250 to 400	339 to 542

Split Flange Mounting Bolts		
Size	Pound- Inches	Newton metres
5/16-18	180 to 240	20 to 27
3/8-16	240 to 300	27 to 34
7/16-14	420 to 540	47 to 61
Size	Pound- Feet	Newton metres
1/2-13	55 to 65	74 to 88
5/8-11	140 to 150	190 to 203

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

O-ring Face Seal End					O-ring Boss End Fitting or Lock Nut		
Nom. SAE Dash Size	Tube OD	Thread Size	Pound- Inches	Newton metres	Thread Size	Pound- Inches	Newton metres
-4	1/4 inch 6.4 mm	9/16-18	120 to 144	14 to 16	7/16-20	204 to 240	23 to 27
-6	3/8 inch 9.5 mm	11/16-16	216 to 240	24 to 27	9/16-18	300 to 360	34 to 41
-8	1/2 inch 12.7 mm	13/16-16	384 to 480	43 to 54	3/4-16	540 to 600	61 to 68
					Thread Size	Pound- Feet	Newton metres
-10	5/8 inch 15.9 mm	1-14	552 to 672	62 to 76	7/8-14	60 to 65	81 to 88
Nom. SAE Dash Size	Tube OD	Thread Size	Pound- Feet	Newton metres	1-1/16-12	85 to 90	115 to 122
					1-3/16-12	95 to 100	129 to 136
-12	3/4 inch 19.0 mm	1-3/16-12	65 to 80	90 to 110	1-5/16-12	115 to 125	156 to 169
-14	7/8 inch 22.2 mm	1-3/16-12	65 to 80	90 to 110	1-5/8-12	150 to 160	203 to 217
-16	1.0 inch 25.4 mm	1-7/16-12	92 to 105	125 to 140	1-7/8-12	190 to 200	258 to 271
-20	1-1/4 inch 31.8 mm	1-11/16-12	125 to 140	170 to 190			
-24	1-1/2 inch 38.1 mm	2-12	150 to 180	200 to 254			

Section 1002

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FLUIDS AND LUBRICANTS

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CAPACITIES AND LUBRICANTS

Engine Oil

Capacity with Filter Change	13.25 liters (14 U.S. quarts)
Total system capacity	15.1 liters (16 U.S. quarts)
Type of oil	Case AKCELA No. 1 engine oil - see engine oil recommendations on page 4

Engine Cooling System

Capacity	28.4 liters (30 U.S. quarts)
Type of Coolant	50% water and 50% Ethylene Glycol

Fuel Tank

Capacity	253 liters (66.8 U.S. Gallons)
Type of Fuel	See Diesel fuel specifications on page 5

Hydraulic System

Hydraulic Reservoir Refill Capacity	90.8 liters (24 U.S. Gallons)
Total System Capacity	177.8 liters (47 U.S. Gallons)
Type of Oil	Case AKCELA Hy-Tran Ultra®

Transmission

Refill Capacity with Filter Change	34 litres (35.9 U.S. quarts)
Type of Oil	Case Nexlore

Axles

Capacity

Standard Front	35 litres (37 U.S. Quarts)
Standard Rear	23 litres (24.3 U.S. Quarts)
Optional Front	35 litres (37 U.S. Quarts)
Optional Rear	35 litres (27 U.S. Quarts)
Type of Lubricant	Case Nexlore

DEF (Diesel Exhaust Fluid)

Total Capacity	59.8 litres (15.8 U.S. Gallons)
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NOTE: DO NOT use an alternate oil in the axles. The brake components in the axles could be damaged as a result of using an alternate oil. Machines are shipped from the factory with break-in oil.

Brake System

Type of Fluid (Same as Hydraulic System)	Case AKCELA Hy-Tran Ultra®
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ENGINE OIL RECOMMENDATIONS

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

If Case AKCELA No. 1 Multi-Viscosity Oil is not available, use only oil meeting API engine oil service category CH-4 (preferred) or CG-4.



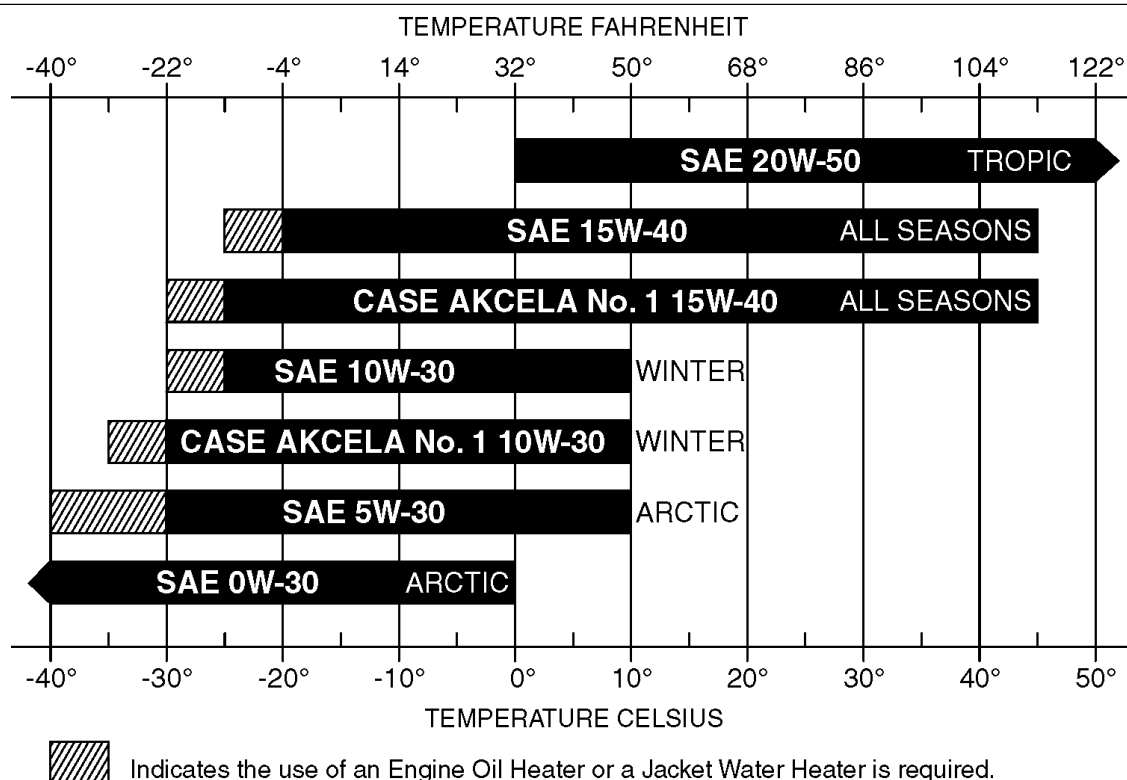
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See the chart below for recommended viscosity at ambient air temperature ranges.

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 AKCELA lubricants.

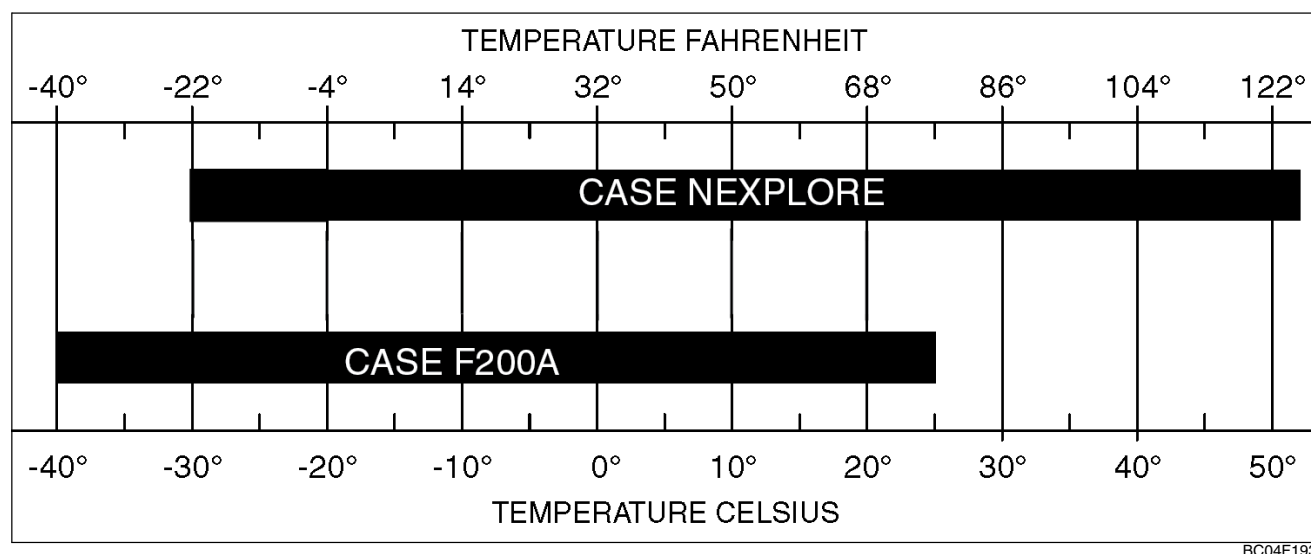


BD03A102



BC02N250

TRANSMISSION TEMPERATURE CHART



BC04F193

DIESEL FUEL SYSTEM

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 restrict the fuel filter and cause the engine to lose power or not start.

The diesel fuel used in this machine must meet the specifications as shown below in, "Specifications for Acceptable No. 2 Diesel Fuel", 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) See Note above
Pour point, maximum	-26°C (-15°F) See Note above
Distillation temperature, 90% point	282 to 338°C (540 to 640°F)
Viscosity, at 38°C (100°F)	
Centistokes	2.0 to 4.3
Cetane number, minimum	43 (45 to 55 for winter or high altitudes)
Water and sediment, by volume, maximum	0.05%

What is Selective Catalytic Reduction (SCR)?

The main components of the SCR system include the SCR catalyst, the Diesel Exhaust Fluid (DEF)/AdBlue® injection unit, the DEF/AdBlue® tank, and the DEF/AdBlue® dosing control unit.

How does Selective Catalytic Reduction (SCR) work?

During combustion, harmful Nitrogen Oxide (NOx) molecules are formed in the exhaust. By injecting a DEF/AdBlue® solution into the exhaust prior to a catalyst, the NOx can be converted to harmless elemental Nitrogen and water. This happens when the NOx molecules react inside the catalyst with the heat generated by the engine and the ammonia in the DEF/AdBlue® solution.

During cold engine operation at low engine coolant and ambient air temperatures, water vapor will be visible from the exhaust when the engine operates. This water vapor will resemble steam or light white smoke and will dissipate as the engine and machine components warm and is considered normal.

NOTE: After engine shutdown, the SCR system will perform a purge cycle, which permits the supply module to continue to run for up to 70 seconds. This is to be considered normal and requires no action from the operator.

What is Diesel Exhaust Fluid (DEF)/AdBlue®?

DEF/AdBlue® is a non-toxic aqueous urea solution (32.5 %) with a slight ammonia odor used to chemically reduce NOx emissions from heavy-duty diesel powered vehicles.

DEF/AdBlue® is neither explosive nor harmful to the environment and is classified under the minimum-risk category of transportable fluids. DEF/AdBlue® quality is defined by ISO 22241-1. The

American Petroleum Institute (API®) has a voluntary certification program for DEF/AdBlue®. To ensure DEF/ AdBlue® satisfies the requirements of ISO 22241. DEF/AdBlue®. API Diesel Exhaust Fluid Certification Mark is a registered trademark of API in the United States and or other countries.

Storage, handling, and transport

NOTICE: Storage temperatures above 30 °C (86 °F) greatly reduce the shelf life of DEF/AdBlue®.

DEF/AdBlue® has a typical shelf life of 6-12 months. Refer to the **SHELF LIFE** table below. In order for DEF/AdBlue® to remain in a usable condition, storage requirements need to be met.

- Store between -11 °C (12 °F) and 30 °C (86 °F).
- Use only an approved DEF/AdBlue® container.

- Keep container tightly closed.
- Keep container in a cool, well-ventilated area.
- Keep away from heat and direct sunlight.

Thawing

• The machine is equipped with an internal tank heater to thaw frozen DEF/AdBlue®. The machine will still function until the DEF/AdBlue® begins to flow. The SCR system will then function normally.

• Do not heat DEF/AdBlue® for long periods of time at temperatures above 30 °C (86 °F). This causes the solution to decompose, which very slowly decreases the expected shelf life.

NOTICE: Do not use an anti-gelling or freeze point improver in your DEF/AdBlue®. The 32.5 % solution is specifically designed to provide the optimum NOx reduction properties. Any further blending or adjusting of the DEF/AdBlue® mixture will lessen its ability to perform correctly and may cause damage to the SCR components.

Handling and supply of additives, if any.

• Personal Protective Equipment (PPE) is not required under normal conditions. If splashing is likely, wear eye protection. For prolonged or repeated contact, impervious gloves are recommended. Follow the precautions listed in the SAFETY INFORMATION chapter when handling any service fluid.

• No additives are required.

NOTICE: Contaminated DEF/AdBlue® can affect the performance of your machine. Follow all instructions in this manual when handling DEF/AdBlue®.

Shelf life

Constant ambient storage temperature and minimum shelf life

Less than or equal to 10 °C (50 °F) 36 months
 Less than or equal to 25 °C (77 °F) ¹ 18 months
 Less than or equal to 30 °C (86 °F) 12 months
 Less than or equal to 35 °C (95 °F) 6 months
 Greater than 35 °C (95 °F) ⁻²

¹ To prevent decomposition of DEF/AdBlue®, prolonged transportation or storage above 25 °C (77 °F) should be avoided.

² Significant loss of shelf life: check every batch before use. See your [Brand] dealer for more information on testing.

NOTE: The main factors taken into account to define the shelf life in the previous figures are the ambient storage temperature and the initial alkalinity of DEF/AdBlue®. The difference in evaporation between vented and non-vented storage containers is an additional factor.

NOTE: The information in this table is for reference only and has been provided by the International Organization for Standardization, Document number ISO 22241-3 Diesel engines - NOx reduction agent AUS 32 - Part 3: Handling, transportation and storage.

Disposal

- Dispose of DEF/AdBlue® and any filter accumulations in accordance with all applicable Federal, State, and local laws governing waste disposal.

For machines sold in California CNH must warrant the diesel emission control system in the application for which it is sold or leased to be free from defects in design, materials, workmanship, or operation of the diesel emission control system which cause the diesel emission control system to fail to conform to the emission control performance level it was verified to, or to the requirements in the California Code of Regulations, Title 13, Sections 2700 to 2706, and 2710, for the periods of time listed below, provided there has been no abuse, neglect, or improper maintenance of your diesel emission control system, vehicle or equipment, as specified in the owner's manuals. Where a warrantable condition exists, this warranty also covers the engine from damage caused by the diesel emission control system, subject to the same exclusions for abuse, neglect or improper maintenance of your vehicle or equipment. Please review your owner's manual for other warranty information. The diesel emission control system may include a core part (e.g., particulate filter, diesel oxidation catalyst, selective catalytic reduction converter) as well as hoses, connectors, and other emission-related assemblies.

Glossary Acronym Definition

DEF	Diesel Exhaust Fluid
ISO	International Organization for Standardization
MSDS	Material Safety Data Sheet
NOx	Nitrogen Oxide
PPE	Personal Protective Equipment
SCR	Selective Catalytic Reduction
ULSD	Ultra Low Sulfur Diesel

SELECTIVE CATALYTIC REDUCTION (SCR) - BASIC INSTRUCTIONS

Requirements

The operator must maintain appropriate DEF/AdBlue® levels at all times. The SCR system is compatible with up to 7% bio-diesel fuel.

Diesel Exhaust Fluid (DEF)/AdBlue® refilling

The DEF/AdBlue® tank cap (1) can be identified by the “blue” color of the cap. A fitting under the cap prevents the insertion of a diesel fill nozzle.

NOTE: If any DEF/AdBlue® spills or contacts any surface other than the storage tanks, immediately clean the affected surface with clear water. DEF/AdBlue® will cause corrosion on painted and unpainted metallic surfaces, and may distort some plastic and rubber components.

It is recommended that DEF/AdBlue® filling equipment should be used having a fill nozzle/pump with the correct length and diameter, triggered by the magnet in the tank filler neck and with overfill flow cut out.

This will ensure that:

- The screen in the filler neck will not be damaged.

- Impurities are not entering the DEF/AdBlue® tank. The standardized DEF/AdBlue® nozzle matches the filler neck diameter.
- The DEF/AdBlue® tank is not overfilled, as the DEF/AdBlue® pump will stop when the DEF/AdBlue® tank is full.
- DEF/AdBlue® is not pumped in the fuel tank, as the DEF/AdBlue® nozzle cannot pump when the magnet is not sensed.

NOTICE: Refilling with a funnel is not recommended as this may lead to damage of the screen in the filler neck.

NOTE: The information above has been provided by the International Organization for Standardization (ISO), Document number ISO 22241-4 Diesel engines - NOx reduction agent AUS 32 - Part 4: Refilling interface.

Diesel Exhaust Fluid (DEF)/AdBlue® consumption

NOTE: DEF/AdBlue® consumption is highly dependent on engine loads, humidity levels, DEF/AdBlue® fluid concentration, and engine speed.

MAINTENANCE SCHEDULE

SERVICE INTERVAL	ITEM NUMBER	SERVICE POINTS	Initial Service	FREQUENCY IN HOURS						
				CHECK	CLEAN	CHANGE	DRAIN	LUBRICATE	REPLACE	ADJUST
Variable Periodic (*)	2	Radiator Coolant Level		*						
	13	Tires		*						
	16	Hydraulic Filter		*						
	12	Alternator, AC, Drive Belt		*						
	31	Air cleaner		*	*					
	19	Bleed Fuel Filter of Condensation					*			
	28	Clean SCR system DEF tank filter			*					
	XX	Fire extinguisher		*						
Every 10 Hours	1	Check Engine Oil Level		10						
Every 50 Hours	13	Check Engine Coolant Level		50						
	3	Check Transmission Oil Level		50						
	4	Check Hydraulic Oil Level		50						
	5 & 6	Grease Bucket Mounting Fittings						50		
	7	Grease machine and attachments						50		
First 100 Hours	16	Change Engine Oil and Filters	100							
	18	Replace Fuel Filters	100							
	20	Change Hydraulic Filter	100							
	25	Change Oil in Axles	100							
	13	Check wheel torque		100						
	28	Clean in-line DEF supply filter			100					
Every 100 Hours	8	Lubricate The Steering Cylinder Pivots - Rod And Closed End (4 Fittings)						100		
	9	Grease Front Drive Shaft Support Bearing						100		
	10	Lubricate Loader Lift & Cylinder Pivots (10) Z-bar						100		
	10	Lubricate Loader Lift & Cylinder Pivots (18) XT						100		
Every 250 Hours	11	Check Cab Air Filter		250						
	14	Check Tire Pressure & Wheel Torque	4	250						
	12	Check Drive Belt		250						
	XX	Trans Clutch Calibration (See Section 6002)	250	1000						
Every 500 Hours	14	Check Axle Oil Level		500						
	15	Check Battery Electrolyte Level		500						
	16	Change Engine Oil and Filter				500				
	XX	Check ROPS		500						
	18	Drain Fuel Tank Condensation & Water Separator					500			
	19	Replace Fuel Filter							500	