



Preventive Maintenance Kits

Updated 7-10-2025



WHY PERFORM PREVENTATIVE MAINTENANCE??

Preventative maintenance on a forklift is essential!!

- **Safety:** Regular maintenance ensures components like brakes, steering, and warning systems work properly, reducing workplace accidents and injuries.
- **Reliability:** Preventative maintenance identifies and fixes issues early, minimizing unexpected breakdowns and ensuring availability.
- **Cost Savings:** Addressing issues during regular maintenance can be less costly than repairing major breakdowns.
- **Efficiency:** Well-maintained forklifts operate smoothly, boosting productivity and reducing downtime.
- **Value:** Regular maintenance preserves the forklift's resale value.

WHY USE BOBCAT PREVENTATIVE MAINTENANCE KITS??

- **Convenience:** Preventative Maintenance Kits include essential parts for routine tasks, simplifying and saving time on maintenance.
- **Consistency:** Kits ensure systematic and consistent maintenance, preventing critical areas from being overlooked.
- **Minimized Downtime:** Having all needed items in one kit reduces downtime, allowing quicker maintenance and keeping the forklift operational.
- **Enhanced Safety:** Regular maintenance ensures safety features and components function correctly, reducing accident risks.
- **Ease of Use:** Kits are user-friendly, making maintenance tasks easier for technicians.
- **Simplified Inventory Management:** Multi-piece kits consolidate maintenance parts, simplifying inventory management and reducing tracking complexity.
- **Lower Risk of Stockouts:** Bundled kits minimize the risk of missing critical parts and ensure timely maintenance without delays.
- **Inventory Cost Savings:** Bulk purchasing for kits often results in cost savings and reduces the need for expensive emergency purchases.
- **Space Optimization:** Storing kits instead of individual parts optimizes space, reducing clutter and making components easier to access.

D20/25/30/33S-9; D35C-9
FDA2A; FDA2B; FDA2C; FDA2D; FDA2E
DM02-LEF03 TIER IV (G2 2.4L D24 Tier IV)

PN 400405-00283 KIT DIESEL 100HR PM		
Part Number	Material Description	Qty
400405-00283	TRANSMISSION OIL FILTER	1

PN 46959632 KIT DIESEL 500HR PM		
400504-00457	ELEMENT ASSY;OUTER	1
400504-00458	ELEMENT ASSY;INNER	1
400504-00580	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1

PN 46959633 KIT DIESEL 1000HR PM		
400504-00457	ELEMENT ASSY;OUTER	1
400504-00458	ELEMENT ASSY;INNER	1
400508-00109	CARTRIDGE, OIL FILTER	1
400504-00580	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
D164457	FILTER, HYDRAULIC OIL	1
D516976	FILTER, HYDRAULIC RETURN	1

PN 46959634 KIT DIESEL 2000HR PM		
Part Number	Material Description	Qty
400504-00457	ELEMENT ASSY;OUTER	1
400504-00458	ELEMENT ASSY;INNER	1
400508-00109	CARTRIDGE, OIL FILTER	1
400504-00580	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
D164457	FILTER, HYDRAULIC OIL	1
D516976	FILTER, HYDRAULIC RETURN	1
400405-00283	TRANSMISSION OIL FILTER	1

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

LUBRICANT VISCOSITIES FOR AMBIENT (OUTSIDE) TEMPERATURES					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ/CK-4,	SAE 5W30	-30	+30	-22	86
	SAE10W30	-20	+30	-4	86
	SAE5W40	-30	+40	-22	104
	SAE10W40	-20	+40	-4	104
	SAE15W40	-15	+40	5	104
	SAE15W50	-15	+50	5	122
Power Shift Transmission & Drive Axle Housing API CD/TO-2	SAE 10W	-20	+22	-4	+72
	SAE 30	+10	+50	+50	+122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG 22	-30	+20	-22	+68
	ISO VG 32	-20	+30	-4	+86
	ISO VG 46	-10	+40	+14	+104
	ISO VG 68	0	+50	+32	+122
Brake Reservoir (Only for OCDB) ISO 6743/4HM	ISO VG32	-20	+30	-4	+86

The SAE grade number indicates the viscosity of oil.
A proper SAE grade number should be selected
according to ambient temperature.

Refill Capacities

REFILL CAPACITIES - (APPROXIMATE)		
Compartment or System	Liters	U.S Gal.
Engine Crankcase w/Filter DM02VA, DM02P Diesel	8.6	2.27
Fuel Tank	58	15.32
Powershift Transmission & Drive Axle	19.0	5
Hydraulic & Power Steering System	34	8.98
Brake Reservoir (Only for OCDB)	0.6	0.16

D35/40/45S-9; D50/55C-9; D40/45/50/55SC-9

FDB41, FDB42, FDB43, FDB44, FDB45

DM02-LEF03 TIER IV (G2 3.4L T4)

PN 400405-00283 KIT DIESEL 100HR PM		
Part Number	Material Description	Qty
400405-00283	FILTER, TRANSMISSION	1

PN 46959635 KIT DIESEL 500HR PM		
Part Number	Material Description	Qty
400504-00399	FILTER ASSY, FUEL	1
400403-00966	ELEMENT, FUEL FILTER; PRE	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1

PN 46959636 KIT DIESEL 1000HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400403-00758C	FILTER ASSY, FUEL	1
400403-00966	ELEMENT, FUEL FILTER; PRE	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1
D516974	HYDRAULIC OIL RETURN FILTER	1
A235011	FILTER, SUCTION HYDRAULIC	1

PN 46959637 KIT DIESEL 2000HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400403-00758C	FILTER ASSY, FUEL	1
400403-00966	ELEMENT, FUEL FILTER; PRE	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1
D516974	HYDRAULIC OIL RETURN FILTER	1
A235011	FILTER, SUCTION HYDRAULIC	1
400405-00283	FILTER, TRANSMISSION	1

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

Lubricant Viscosities for Ambient (Outside) Temperatures					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ/CK-4	SAE 5W30	-30	+30	-22	86
	SAE10W30	-20	+30	-4	86
	SAE5W40	-30	+40	-22	104
	SAE10W40	-20	+40	-4	104
	SAE15W40	-15	+40	5	104
	SAE15W50	-15	+50	5	122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG32	-20	+30	-4	+86
	ISO VG46	-10	+40	+14	+104
	ISO VG68	0	+50	+32	+122
Power Shift Transmission and Drive Axle Housing DEXRON III	DEXRON III	-20	+50	-4	+122
Brake Reservoir (Only for OCDB) ISO 6743/4HM	ISO VG32	-20	+30	-4	+86
	ISO VG46	-10	+40	+14	+104
	ISO VG68	0	+50	+32	+122

The SAE grade number indicates the viscosity of oil. A proper SAE grade number should be selected according to ambient temperature.

Capacities for Refilling

Refill Capacities-(Approximate)		
Compartment or System	Liters	U.S. Gal.
Engine Crankcase w/Filter	12.6	3.33
Cooling System /Coolant Reservoir tank	13.0	3.43
Fuel Tank – Diesel	90.0	23.78
Power Shift Transmission	20.0	5.28
Hydraulic & Power Steering System	73.0	19.3
Brake Reservoir	0.6	0.16
Transmission & Drive axle	22	5.8



D60/70/80/90S-9

FDB20-5102, FDB21-5102, FDB22-5102, FDB23-5102

DM03PA Tier 4

PN 46966585 KIT DIESEL 100HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400504-00582	ELEMENT, FUEL FILTER	1

PN 46959638 KIT DIESEL 500HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400504-00582	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1

PN 46959639 KIT DIESEL 1000HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400504-00582	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
D501696	ELEMENT, HYDRAULIC OIL	1
A135050	STRAINER, SUCTION	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1

PN 46959640 KIT DIESEL 2000HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400504-00582	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
D501696	ELEMENT, HYDRAULIC OIL	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1
A135050	STRAINER, SUCTION	1
A138746	FILTER, TRANSMISSION	1

SERIAL # BREAK FDB20-5105; FDB21-5105; FDB22-5105; FDB23-5105		
PN 46959641 KIT DIESEL 3000HR PM		
Part Number	Material Description	Qty
400508-00190	CARTRIDGE, OIL FILTER	1
400504-00582	ELEMENT, FUEL FILTER	1
400504-00610	ELEMENT, FUEL FILTER; PRE	1
D501696	ELEMENT, HYDRAULIC OIL	1
400504-00260	AIR ELEMENT PRIMARY	1
400504-00261	AIR ELEMENT SECONDARY	1
A135050	STRAINER, SUCTION	1
A138746	FILTER, TRANSMISSION	1
400412-00003	FILTER; UREA	1

D60/70/80/90S-9

FDB20-5102, FDB21-5102, FDB22-5102, FDB23-5102

DM03PA Tier 4

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

LUBRICANT VISCOSITIES FOR AMBIENT (OUTSIDE) TEMPERATURES					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ4 & CK4, ACEA E9	SAE 5W30	-30	+30	-22	86
	SAE10W30	-20	+30	-4	86
	SAE5W40	-30	+40	-22	104
	SAE10W40	-20	+40	-4	104
	SAE15W40	-15	+40	5	104
	SAE15W50	-15	+50	5	122
	SAE20W50	-10	+50	14	122
Engine Crankcase (LP) and Lift Chains API SJ	SAE 5W30	-30	+30	-22	+86
Auto Shift Transmission API GL4	UTTO (API GL4)	-20	+50	-4	+122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG32	-20	+30	-4	+86
	ISO VG46	-10	+40	+14	+104
	ISO VG68	0	+50	+32	+122
Drive Axle Housing Disc Brake (OCDB) API GL4	UTTO (API GL4)	-20	+50	-4	+122

The SAE grade number indicates the viscosity of oil. A proper SAE grade number should be selected according to ambient temperature.

Refill Capacities

Refill Capacities (Approximate)		53.5/55.4kW		81kW	
		5/6/7TON		5/6/7 TON	8/9 TON
Compartment or System		Liters			
Engine Crankcase w/Filter	DM03 DN03	12.6			
Cooling System w/Coolant Reservoir tank		12.7			
Fuel Tank Diesel		160			255
DEF / Ad- Blue Tank		-	15	30	
Auto Shift Transmission	ZF 3WG94	21			
Hydraulic Tank		117	93	137	
		Proper quantity			
Drive Axle	Disc Brake	14			

NOTE: The refill volume varies by the residual oil volume. Check the level gauge and refer to the related instruction on the oil replacement.

NOTE: Dieseling may occur, causing damage to the engine if oil is refilled excessively. Refill the oil half way between MIN and MAX using the dipstick.

D100/120/140/160S-9; DV160S-9

FDC0E, FDC0F, FDC0G, FDC0H, FDC0K

DL06-Tier 4

PN A138746 KIT DIESEL 100HR PM		
Part Number	Material Description	Qty
A138746	FILTER; TRANSMISSION	1

PN 46959642 KIT DIESEL 500HR PM		
Part Number	Material Description	Qty
A147202	ELEMENT,PRIMARY;AIR CLEANER	1
A147203	ELEMENT,SAFETY;AIR CLEANER	1
65.12503-5026	ELEMENT, FILTER; FUEL	1
400508-00115	CARTRIDGE, FUEL FILTER	1
65.05510-5032	CARTRIDGE, OIL FILTER	1
400504-00076	ELEMENT, FILTER; BRAKE STRAINER	1
A235011	FILTER, SUCTION; OIL BRAKE	1

PN 46959643 KIT DIESEL 1000HR PM		
Part Number	Material Description	Qty
A147202	ELEMENT,PRIMARY;AIR CLEANER	1
A147203	ELEMENT,SAFETY;AIR CLEANER	1
65.12503-5026	ELEMENT, FILTER; FUEL	1
400508-00115	CARTRIDGE, FUEL FILTER	1
65.05510-5032	CARTRIDGE, OIL FILTER	1
400504-00076	ELEMENT, FILTER; BRAKE STRAINER	1
A235011	FILTER, SUCTION; OIL BRAKE	1
400405-00128	FILTER, HYDRAULIC OIL	1

PN 46959644 KIT DIESEL 2000HR PM		
Part Number	Material Description	Qty
A147202	ELEMENT,PRIMARY;AIR CLEANER	1
A147203	ELEMENT,SAFETY;AIR CLEANER	1
65.12503-5026	ELEMENT, FILTER; FUEL	1
400508-00115	CARTRIDGE, FUEL FILTER	1
65.05510-5032	CARTRIDGE, OIL FILTER	1
400504-00076	ELEMENT, FILTER; BRAKE STRAINER	1
A235011	FILTER, SUCTION; OIL BRAKE	1
400405-00128	FILTER, HYDRAULIC OIL	1
A138746	FILTER; TRANSMISSION	1

D100/120/140/160S-9; DV160S-9

FDC0E, FDC0F, FDC0G, FDC0H, FDC0K

DL06-Tier 4

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

LUBRICANT VISCOSITIES FOR AMBIENT (OUTSIDE) TEMPERATURES					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ4, ACEA E9	SAE 5W30	-30	+30	-22	86
	SAE10W30	-20	+30	-4	86
	SAE5W40	-30	+40	-22	104
	SAE10W40	-20	+40	-4	104
	SAE15W40	-15	+40	5	104
	SAE15W50	-15	+50	5	122
Auto Shift Transmission API CD/TO-2	SAE 10W	-20	+22	-4	+72
	SAE 30	+10	+50	+50	+122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG32	-20	+30	-4	+86
	ISO VG46	-10	+40	+14	+104
	ISO VG68	0	+50	+32	+122
Drive Axle Housing (Diff, Hub) API GL-5	SAE 80W90	-20	+50	-4	+122
Brake Cooling Oil ISO 6743/4 HM	ISO VG15	-40	+10	-40	+50
	ISO VG22	-30	+20	-22	+68
	ISO VG32	-20	+30	-4	+86
	ISO VG46	-10	+40	-14	+104

The SAE grade number indicates the viscosity of oil. A proper SAE grade number should be selected according to ambient temperature.

Required Attention for hydraulic parts inspection

The Hot and High Pressure Oil is Stored in the Brake System

⚠ WARNING

The hot and high pressure oil in the brake system can cause burn injuries, cuts and sight damage.

The inspection or change for the hydraulic parts related with brake system should be asked by BOBCAT servicing man or dealer

Refill Capacities

Refill Capacities (Approximate)		D100 /120	D140 /160	DV160	DV180	DV250
Compartment or System		Liters	Liters	Liters	Liters	Liters
Engine Crankcase w/Filter		29	29	29	35	35
Cooling System w/Coolant Recovery Bottle		35	35	35	39	42
Fuel Tank - Diesel		180	230	280	300	400
DEF Tank		30	30	30	62	62
Auto Shift Transmission		25	25	25	25	25
Hydraulic Tank		*150	*180	*210	240	336
		Proper quantity	Proper quantity	Proper quantity	Proper quantity	Proper quantity
Drive Axle	Differential	18	19	20	20	24
	Hub (Each)	1	1	3	3	3.2
Brake Oil Tank**		*20	*20	*20	44	40

* Start the engine and check the dipstick or gauge.

** D100~160, DV160: Hydraulic oil + Additives(1.2 liter)

DV180/250 : Hydraulic oil + Additives(2 liter)

G20/25/30/33E-7; G35EC-7

FGA1L, FGA1M, GGA1N, FGA1P, FGA1Q
HMC 2.4L Tier 3

PN D140182 KIT GAS 100HR PM		
Part Number	Material Description	Qty
D140182	FILTER, OIL; TRANSMISSION	1

PN 400404-00036 KIT GAS 250HR PM		
Part Number	Material Description	Qty
400404-00036	FILTER, OIL; TRANSMISSION	1

PN 46959645 KIT GAS 500HR PM		
Part Number	Material Description	Qty
400504-00377	ELEMENT ASSY; OUTER	1
400504-00378	ELEMENT ASSY; INNER	1
400404-00036	CARTRIDGE, OIL FILTER	1
D140182	FILTER, OIL; TRANSMISSION	1

PN 46959646 KIT GAS 1000HR PM		
Part Number	Material Description	Qty
400504-00377	ELEMENT ASSY; OUTER	1
400504-00378	ELEMENT ASSY; INNER	1
400404-00036	CARTRIDGE, OIL FILTER	1
D164457	FILTER, HYDRAULIC OIL	1
D516976	FILTER, HYDRAULIC RETURN	1
D140182	FILTER, OIL; TRANSMISSION	1

PN 46959647 KIT GAS 1500HR PM		
Part Number	Material Description	Qty
400504-00377	ELEMENT ASSY; OUTER	1
400504-00378	ELEMENT ASSY; INNER	1
D140182	FILTER, OIL; TRANSMISSION	1
400404-00036	CARTRIDGE, OIL FILTER	1
400403-00169	FILTER ASSY, FUEL; LPG	1
300622-00007	PLUG, SPARK; HMC2.4L	4

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

LUBRICANT VISCOSITIES FOR AMBIENT (OUTSIDE) TEMPERATURES					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ4, ACEA E9	SAE 5W30	-30	+30	-22	86
	SAE 10W30	-20	+30	-4	86
	SAE 5W40	-30	+40	-22	104
	SAE 10W40	-20	+40	-4	104
	SAE 15W40	-15	+40	5	104
	SAE 15W50	-15	+50	5	122
GCT GK25 Engine Crankcase (Gasoline and LP) API SJ	SAE 10W30	-20	+40	-4	+104
	SAE 5W30	-30	+30	-22	+86
4TNE98 & 4TNE94L (T3) Crankcase (Diesel) API CI4, ACEA E5	SAE 10W40	-15	+50	-5	+122
G424P(E), HMC2.4L Engine Crankcase (Gasoline and LP) API SL	SAE 10W30	-20	+40	-4	+104
	SAE 5W30	-30	+30	-22	+86
Power Shift Transmission & Drive Axle Housing API CD/TO-2	SAE 10W	-20	+22	-4	+72
	SAE 30	+10	+50	+50	+122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG 22	-30	+20	-22	+68
	ISO VG 32	-20	+30	-4	+86
	ISO VG 46	-10	+40	+14	+104
	ISO VG 68	0	+50	+32	+122
Brake Reservoir (Only for OCDB) ISO 6743/4HM	ISO VG32	-20	+30	-4	+86

The SAE grade number indicates the viscosity of oil. A proper SAE grade number should be selected according to ambient temperature.

Refill Capacities

REFILL CAPACITIES - (APPROXIMATE)		
Compartment or System	Liters	U.S. Gal.
Engine Crankcase w/Filter D24NAP Diesel	8.6	2.27
Engine Crankcase w/Filter GCT GK25 Gasoline & LP	3.8	1.00
Engine Crankcase w/Filter 4TNE98 & 4TNE94L Diesel	9.2	2.43
Engine Crankcase w/Filter G424PE 2.4L liter	4.7	1.24
Engine Crankcase w/Filter HMC 2.4L liter	5.5	1.45
Cooling System w/Coolant Recovery Bottle D24NAP Diesel	10.7	2.83
Cooling System w/Coolant Recovery Bottle GCT GK25 Gasoline & LP	10.4	2.75
Cooling System w/Coolant Recovery Bottle 4TNE98 & 4TNE94L Diesel	10.7	2.83
Cooling System w/Coolant Recovery Bottle G424P(E) 2.4 liter	9.0	2.38
Cooling System w/Coolant Recovery Bottle HMC 2.4L liter	8.5	2.25
Fuel Tank	51	13.47
Powershift Transmission	13.0	3.43
Drive Axle	9.2	2.43
Hydraulic & Power Steering System	34	8.98
Brake Reservoir (Only for OCDB)	0.6	0.16



G20/25/30/33/N-7; G35NC-7

FGA13, FGA14, FGA15, FGA16, FGA17
Nissan (GCT K25), 2.5L Tier II Certified

46966584 KIT GAS 100HR PM		
Part Number	Material Description	Qty
400404-00122	CARTRIDGE, OIL FILTER	1
D140182	FILTER, OIL; TRANSMISSION	1

46959648 KIT GAS 500HR PM		
Part Number	Material Description	Qty
A213939	ELEMENT ASSY;OUTER	1
A213938	ELEMENT ASSY;INNER	1
400404-00122	CARTRIDGE, OIL FILTER	1
D140182	FILTER, OIL; TRANSMISSION	1

46959649 KIT GAS 1000HR PM		
Part Number	Material Description	Qty
A213939	ELEMENT ASSY;OUTER	1
A213938	ELEMENT ASSY;INNER	1
400404-00122	CARTRIDGE, OIL FILTER	1
D140182	FILTER, OIL; TRANSMISSION	1
D516976	FILTER, HYDRAULIC RETURN	1
D164457	FILTER, HYDRAULIC SUCTION	1
A213040	FILTER, SUCTION, TRANSMISSION	1

46959650 KIT GAS 1500HR PM		
Part Number	Material Description	Qty
A213939	ELEMENT ASSY;OUTER	1
A213938	ELEMENT ASSY;INNER	1
400404-00122	CARTRIDGE, OIL FILTER	1
D140182	FILTER, OIL; TRANSMISSION	1
400403-00169	FILTER ASSY, FUEL; LPG	1

Lubricant Viscosities and Refill Capacities

Lubricant Viscosities

LUBRICANT VISCOSITIES FOR AMBIENT (OUTSIDE) TEMPERATURES					
Compartment or System	Oil Viscosities	°C		°F	
		Min	Max	Min	Max
Engine Crankcase (Diesel) API CJ4, ACEA E9	SAE 5W30	-30	+30	-22	86
	SAE10W30	-20	+30	-4	86
	SAE5W40	-30	+40	-22	104
	SAE10W40	-20	+40	-4	104
	SAE15W40	-15	+40	5	104
	SAE15W50	-15	+50	5	122
GCT GK25 Engine Crankcase (Gasoline and LP) API SJ	SAE 10W30	-20	+40	-4	+104
	SAE 5W30	-30	+30	-22	+86
4TNE98 & 4TNE94L (T3) Crankcase (Diesel) API C14, ACEA E5	SAE 10W40	-15	+50	-5	+122
G424P(E), HMC2.4L Engine Crankcase (Gasoline and LP) API SL	SAE 10W30	-20	+40	-4	+104
	SAE 5W30	-30	+30	-22	+86
Power Shift Transmission & Drive Axle Housing API CD/TO-2	SAE 10W	-20	+22	-4	+72
	SAE 30	+10	+50	+50	+122
Hydraulic and Power Steering System ISO 6743/4 HM	ISO VG 22	-30	+20	-22	+68
	ISO VG 32	-20	+30	-4	+86
	ISO VG 46	-10	+40	+14	+104
	ISO VG 68	0	+50	+32	+122
Brake Reservoir (Only for OCDB) ISO 6743/4HM	ISO VG32	-20	+30	-4	+86

The SAE grade number indicates the viscosity of oil.
A proper SAE grade number should be selected
according to ambient temperature.

Refill Capacities

REFILL CAPACITIES - (APPROXIMATE)		
Compartment or System	Liters	U.S. Gal.
Engine Crankcase w/Filter D24NAP Diesel	8.6	2.27
Engine Crankcase w/Filter GCT GK25 Gasoline & LP	3.8	1.00
Engine Crankcase w/Filter 4TNE98 & 4TNE94L Diesel	9.2	2.43
Engine Crankcase w/Filter G424PE 2.4L liter	4.7	1.24
Engine Crankcase w/Filter HMC 2.4L liter	5.5	1.45
Cooling System w/Coolant Recovery Bottle D24NAP Diesel	10.7	2.83
Cooling System w/Coolant Recovery Bottle GCT GK25 Gasoline & LP	10.4	2.75
Cooling System w/Coolant Recovery Bottle 4TNE98 & 4TNE94L Diesel	10.7	2.83
Cooling System w/Coolant Recovery Bottle G424P(E) 2.4 liter	9.0	2.38
Cooling System w/Coolant Recovery Bottle HMC 2.4L liter	8.5	2.25
Fuel Tank	51	13.47
Powershift Transmission	13.0	3.43
Drive Axle	9.2	2.43
Hydraulic & Power Steering System	34	8.98
Brake Reservoir (Only for OCDB)	0.6	0.16

G20/25/30E-5

FGA07, FGA08, FGA09

GC20/25/30/33P-5

FGA0K, FGA0L, FGA0M, FGA0N

PM500HMC2.4			HMC 2.4L 500 Hour PM Kit		
Part Number		Material Description	Qty		
400404-00036		Oil Filter	1		
A213939		Primary Air Filter	1		
A213938		Secondary Air Filter	1		
D141186		Bulkhead Filter	1		
400403-00169		LPG Filter Kit	1		

PM1000HMC2.4			HMC 2.4L 1000 Hour PM Kit		
Part Number		Material Description	Qty		
400404-00036		Oil Filter	1		
A213939		Primary Air Filter	1		
A213938		Scondary Air Filter	1		
D141186		Bulkhead Filter	1		
400403-00169		LPG Filter Kit	1		
D164457		Hydraulic Suction	1		
D516975		Hydraulic Return	1		
D140182		Transmission Filter	1		

G20/25/30/33P-5*
 ML-, MM-, MN-, MO-, MP-, MQ-
 FGA0A, FGA0B, FGA0C, FGA0D
GC20/25/30/33P-5*
 MW-
 FGA0P, FGA0R, FGA0S, FGA0T

PM500GM2.4	GM 2.4 L 500 Hour PM Kit	
Part Number	Material Description	Qty
A413511	Oil Filter	1
A213939	Primary Air Filter	1
A213938	Secondary Air Filter	1
D141186	Bulkhead Filter	1
400403-00169	LPG Filter Kit	1

**EXCLUDES THESE SERIAL #'S:*

ML-01071 thru ML-01122

MM-00609 thru MM-00618

MO-00126 thru ML-00130

MP-00119

MQ-00131 thru MQ-00133

PM1000GM2.4	GM 2.4L 1000 Hour PM Kit	
Part Number	Material Description	Qty
A413511	Oil Filter	1
A213939	Primary Air Filter	1
A213938	Secondary Air Filter	1
D141186	Bulkhead Filter	1
400403-00169	LPG Filter Kit	1
D164457	Hydraulic Suction	1
D516975	Hydraulic Return	1
D140182	Transmission Filter	1

**EXCLUDES THESE SERIAL #'S:*

ML-01071 thru ML-01122

MM-00609 thru MM-00618

MO-00126 thru ML-00130

MP-00119

MQ-00131 thru MQ-00133

Lubricant Part Numbers

Engine Oils

Part Number	Description	MOQ	UOM
DDO10W30G	Doosan Diesel FLT 10W30 CJ-4	3	Gallon
DDO10W30Q	Doosan Diesel FLT 10W30 CJ-4	12	Quart
DEO10W30	Doosan Engine Oil 10W30	12	Quart
DEO10W30G	Doosan Engine Oil 10W30	3	Gallon
DEO10W30G-PAL	Doosan Engine Oil 10W30 168 Gallons	1	Pallet
DEO10W30Q-PAL	Doosan Engine Oil 10W30 1008 Quarts	1	Pallet
MAG67987	MAG1 10W30 API CK-4 55 Gallon	1	55 Gallon Drum
DEO15W40	Doosan Engine Oil 15W40	3	Gallon
DEO15W40G-PAL	Doosan Engine Oil 15W40 168 Gallons	1	Pallet
DEO15W40Q	Doosan Engine Oil 15W40	12	Quart
DEO15W40Q-PAL	Doosan Engine Oil 15W40 1008 Quarts	1	Pallet
DEO5W20	Doosan Engine Oil 5W20	6	Quart
DEO5W30	Doosan Engine Oil 5W30	12	Quart
DEO5W30Q-PAL	D5W30 Engine Oil: 1008 Quart Pallet	1	Pallet
VV935	Valvoline Synpower SAE 10W30	6	Quart
VV296	Valvoline Durablend SAE 10W30	6	Quart
MAG61792	Mag 1 5W20 Full Synth	6	Quart
MO481119	MOBIL#1 SYNTH 5W30	6	Quart

ATF and Blue DEF

Part Number	Description	MOQ	UOM
DATF32Q	Doosan Dexron ATF	6	Quart
MAG64092	Mag 1 Dexron VI Synthetic ATF	6	Quart
DCDEF001	Blue DEF 55 Gallon Plastic Drum	1	55 Gal Drum
DC-DEF03	Blue DEF	4	Gallon

ATX; Gear Oil; UTF

Part Number	Description	MOQ	UOM
DAO10WG	Doosan Axle Oil, 10W TO2	3	Gallon
DAO30W	Doosan Axle Oil, 30W TO4	3	Gallon
DAO30WD	Drive Axle Oil 30W TO4, 55 Gallon	1	Drum
DAO30WG-PAL	DAO30W Drive Axle Oil, 156 Gallon	1	Pallet
DGO80W90D	80W90 Limited Slip Gear Oil, 55 Gallon Drum	1	Drum
DGO80W90G	80W90 Limited Slip Gear Oil, Gallon	3	Gallon
DGO80W90Q	80W90 Gear Oil Quarts Peak Brand	6	Quarts
MAG00825	Mag1 80W90	1	5 Gal. Pail
DUTF	Universal Tractor Fluid API GL-4	1	5 Gal. Pail
DUTFG-3	Universal Tractor Fluid API GL-4	3	Gallon
VV721	Universal Tractor Hydraulic	4	Gallon
VEL06	Velocite Brake Oil	1	Gallon
DC10047	Synthetic Gear Oil 75W90	12	Quart

Hydraulic Oil

Part Number	Description	MOQ	UOM
DHO32D	Doosan AW32 Hydraulic Oil	1	55 Gal. Drum
DHO32G	Doosan AW32 Hydraulic Oil	3	Gallon
DHO32P	Doosan AW32 Hydraulic Oil	1	5 Gal. Pail
DHO32G-PAL	Doosan AW32 Hyd. Oil, 168 Gallons	1	Pallet
DHO46G	Doosan Premium AW46 Hydraulic Oil	3	Gallon
MAG00465	MAG1 AW46 Hydraulic Oil	1	5 Gal. Pail
MAG1468	MAG1 AW46 Hydraulic Oil	1	55 Gal. Drum
DHO68G	Doosan Premium AW68 Hydraulic Oil	3	Gallons
EMTF4242-5	Mobil 424 Tractor Fluid	1	2 x 2.5 Gal.
EMTF4242P	Mobil 424 Tractor Fluid	1	5 Gal. Pail



Lubricant Part Numbers

Antifreeze / Coolants

Part Number	Description	MOQ	UOM
675130	Zerex Asian Vehicle Antifreeze	6	Gallon
P001AF6P	Polar Antifreeze Conventional Green	6	Gallon
P001AF6P-PAL	Polar Antifreeze Conventional Green 216 Gal.	1	Pallet
P038AF6P	Polar Antifreeze Conventional 50/50	6	Gallon
PO01AFD5	Polar Antifreeze Conventional 50/50	1	55 Gal. Drum
P038AF6P-PAL	Polar Antifreeze Conventional 50/50 216 Gal.	1	Pallet
ZX001	Zerex Original Green Antifreeze	6	Gallon
ZXED1	Zerex HD Extended Life Red Concentrate	6	Gallon
ZXEDRU1	Zerex HD Extended Life Red 50/50	6	Gallon
ZXEL1	Zerex DEX-Cool orange Concentrate	6	Gallon
ZXELRU1	Zerex Dex-Cool Orange 50/50	6	Gallon
ZXRU1	Zerex Original Green 50/50	6	Gallon



ONE TOUGH TEAM.

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