



Preventive Maintenance Kits



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	
Part Number	Material Description	Qty	
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	
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	

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
	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
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)

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

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
400403-00638	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
400403-00758A	FILTER ASSY, FUEL	1
400403-00638	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
400403-00758A	FILTER ASSY, FUEL	1
400403-00638	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



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
Engine Crankcase (LP) and Lift Chains API SJ	SAE 5W30	-30	+30	-22	+86
	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	8/9 TON
Compartment or System	Liters			
Engine Crankcase w/Filter	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

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	
GCT GK25 Engine Crankcase (Gasoline and LP) API SJ	SAE15W50	-15	+50	5	122	
	SAE20W50	-10	+50	14	122	
4TNE98 & 4TNE94L (T3) Crankcase (Diesel) API CI4, ACEA E5	GCT GK25 Engine Crankcase (Gasoline and LP) API SJ	SAE 10W30	-20	+40	-4	+104
		SAE 5W30	-30	+30	-22	+86
G424P(E), HMC2.4L Engine Crankcase (Gasoline and LP) API SL	4TNE98 & 4TNE94L (T3) Crankcase (Diesel) API CI4, ACEA E5	SAE 10W40	-15	+50	-5	+122
		SAE 10W30	-20	+40	-4	+104
Power Shift Transmission & Drive Axle Housing API CD/TO-2	G424P(E), HMC2.4L Engine Crankcase (Gasoline and LP) API SL	SAE 5W30	-30	+30	-22	+86
		SAE 10W	-20	+22	-4	+72
Hydraulic and Power Steering System ISO 6743/4 HM		SAE 30	+10	+50	+50	+122
		ISO VG 22	-30	+20	-22	+68
		ISO VG 32	-20	+30	-4	+86
		ISO VG 46	-10	+40	+14	+104
Brake Reservoir (Only for OCDB) ISO 6743/4HM		ISO VG 68	0	+50	+32	+122
		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

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



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
	SAE 10W30	-20	+30	-4	86
	SAE 5W40	-30	+40	-22	104
	SAE 10W40	-20	+40	-4	104
	SAE 15W40	-15	+40	5	104
GCT GK25 Engine Crankcase (Gasoline and LP) API SJ	SAE 15W50	-15	+50	5	122
	SAE 20W50	-10	+50	14	122
4TNE98 & 4TNE94L (T3) Crankcase (Diesel) API C14, ACEA E5	SAE 10W30	-20	+40	-4	+104
	SAE 5W30	-30	+30	-22	+86
G424P(E), HMC2.4L Engine Crankcase (Gasoline and LP) API SL	SAE 10W40	-15	+50	-5	+122
	SAE 10W	-20	+22	-4	+72
Power Shift Transmission & Drive Axle Housing API CD/TO-2	SAE 30	+10	+50	+50	+122
	ISO VG 22	-30	+20	-22	+68
Hydraulic and Power Steering System ISO 6743/4 HM	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	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	

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

G20/25/30/33P-5; G35C-5

FGA0A, FGA0B, FGA0C, FGA0D, FGA0E

GC20/25/30/33P-5

FGA0P, FGA0R, FGA0S, FGA0T

G20/25/30G

FGA0W, FGA0X, FGA0Y

PM500MMC2.4			MMC 2.4L 500 Hour PM Kit		
Part Number	Material Description	Qty			
400405-00167	Oil Filter	1			
A213939	A213939	1			
A213938	A213938	1			
D141186	Bulkhead Filter	1			
400403-00169	LPG Filter Kit	1			

PM1000HMC2.4			MMC 2.4L 1000 Hour PM Kit		
Part Number	Material Description	Qty			
400405-00167	Oil Filter	1			
A213939	A213939	1			
A213938	A213938	1			
D141186	Bulkhead Filter	1			
400403-00169	LPG Filter Kit	1			
D164457	Hydraulic Suction	1			
D516975	Hydraulic Return	1			
D140182	Transmission Filter	1			



ONE TOUGH TEAM.

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