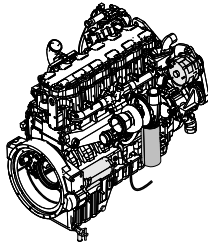



# PANTHER T8 tier 3 QUICK MAINTENANCE REFERENCE

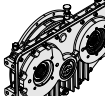
## ENGINE

	Part Number	Replacement
	Fuel Filter	121504102 / CAT # 1R-0751
	Water Separator	114476400 / CAT # 360-8960
	Oil Filter	121504263 / CAT # 1R-1807
	Oil Specification	Replacement
	CAT DEO (diesel engine oil) API CJ-4 SAE W30, 5W 30, 10W 30, 10W 40	500h/Yearly
	Coolant Fluid Specification	Replacement
	Antifreeze 60 / 40 with DCA4	Yearly
	Fuel Specification	Ultra low sulfur diesel fuel (< 15ppm). According to EN 590


## PLANETARY

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50h, 500h, Yearly

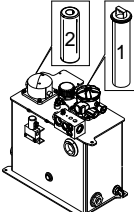
## TRANSFER CASE

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50h, 500h


## WHEEL HUB

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50h, 500h, Yearly

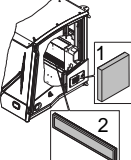
## HYDRAULIC/HYDROSTATIC

	Part Number	Replacement
	1- 118700100 2- 171953060	First 50h, Yearly
	Oil Specification	Replacement
	ATF type F or Shell Donax TF or oil in compliance with Ford ESW M2C33-F	Yearly

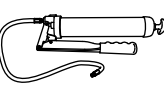
## ENGINE AIR FILTER

	Part Number	Replacement
	121504104 (2 filters) CAT # 6I-0273, 6I-0274	Visual inspection As required


## CAB AIR FILTERS

	Parts number	Replacement
	1- 114668050	Visual inspection As required
	2- 114667986	

## GREASE

	Grease Specification
	Multi-season, lithium based, NLGI grade 1 EP rated with "MOLY" additives, water resistant, minimum service temperature of -40°C to 100°C (-40°F to 212°F) approved for automobile wheel bearing and chassis.

## ENGINE DRIVE BELT

	Parts number	Replacement
	121504206 / CAT # 285-6217	Visual inspection As required

# DAILY CHECK LIST

- ☒ Check hydraulic oil level
- ☒ Check engine oil level
- ☒ Check engine coolant level
- ☒ Check engine oil and cooling circuits for leaks
- ☒ Check fuel water separator
- ☒ Check air filter cleanliness
- ☒ Check V-belt tension
- ☒ Check A/C condenser for debris
- ☒ Check hydraulic system for leaks and damage
- ☒ Oil cooler and water cooler must be free of debris
- ☒ Check water cooler for leaks
- ☒ Clean the track drives if ground condition is poor
- ☒ Check tension of the track according to specification
- ☒ Check planetary for leaks

A full line of purpose-built parts are available through the PipeLine Machinery parts department.



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# PANTHER T8 tier 4

## QUICK MAINTENANCE REFERENCE

### ENGINE

	Part Number		Replacement
1- Oil Filter	121504245 / CAT # 462-1117		500 hr
2- Fuel Filter	121504243 / CAT # 360-8959		500 hr
3- Water Separator	121504244 / CAT # 360-8960		500 hr
4- Crank Case Breather	121504286 / CAT # 339-1048		1500hr
5- In Line Fuel Filter	121504242 / CAT # 384-8512		500 hr
6- DEF Filter	121504274 / CAT # 387-3187		5000 hr
Oil Specification			Replacement
CAT DEO (diesel engine oil) API CJ-4 SAE W30, 5W 30, 10W 30, 10W 40			500 hr/Yearly
Coolant Fluid Specification			Replacement
Antifreeze 60 / 40 with DCA4 or Long Life			Yearly
Fuel Specification			
Ultra low sulfur diesel fuel (<15ppm). According to EN 590			
Diesel Exhaust Fluid Specification			
In compliance with ISO 22241-1 standard			

### PLANETARIES

	Oil Specification		Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140		First 50h, 500 hr, Yearly


### TRANSFER CASE

	Oil Specification		Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140		First 50 h, 500h

### WHEEL HUBS

	Oil Specification		Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140		First 50 hr, 500 hr, Yearly


### HYDRAULIC/HYDROSTATIC

	Part Number	Replacement
	1- 171953060 2- 118700100	First 50 hr, Yearly
	Oil Specification	Replacement
	ATF type F or Shell Donax TF or oil in compliance with Ford ESW M2C33-F	Yearly

### ENGINE AIR FILTERS

	Part Number		Replacement
	1- 121504230 / CAT # 304-5632 2- 121504231 / CAT # 304-5633		Visual inspection as required

### CAB AIR FILTERS

	Parts Number	Replacement
	1- 114668507	Visual inspection as required
	2- 114667986	

### GREASE

Grease Specification	
Multi-season, lithium based, NLGI grade 1 EP rated with "MOLY" additives, water resistant, minimum service temperature of -40°C to 100°C (-40°F to 212°F) approved for automobile wheel bearing and chassis.	

### ENGINE DRIVE BELT

	Parts Number		Replacement
	1- 121504206 / CAT # 285-6217 2- 121504234		Visual inspection as required

## DAILY CHECK LIST

- ☒ Check hydraulic oil level
- ☒ Check engine oil level
- ☒ Check engine coolant level
- ☒ Check engine oil and cooling circuits for leaks
- ☒ Check fuel water separator
- ☒ Check air filter cleanliness
- ☒ Check engine belt tension
- ☒ Check A/C condenser for debris
- ☒ Check hydraulic system for leaks and damage
- ☒ Oil cooler and water cooler must be free of debris
- ☒ Check water cooler for leaks
- ☒ Clean the track drives if ground condition is poor
- ☒ Check tension of the track
- ☒ Check planetaries for leaks
- ☒ Check DEF level (Diesel exhaust fluid)

A full line of purpose-built parts are available through the PipeLine Machinery parts department.



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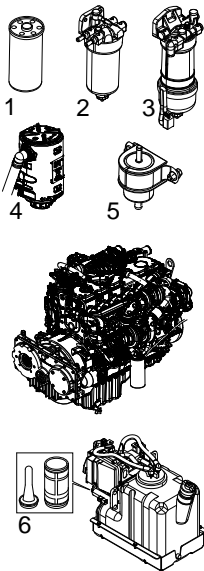
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# PANTHER T12 tier 4

## QUICK MAINTENANCE REFERENCE

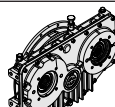
### ENGINE

	Part Number	Replacement
	1- Oil Filter 121504245 / CAT # 462-1171	500 hr
	2- Fuel Filter 121504243 / CAT # 360-8959	500 hr
	3- Water Separator 121504244 / CAT # 360-8960	500 hr
	4- Crank Case Breather 121504286 / CAT # 339-1048	1500hr
	5- In Line Fuel Filter 121504242 / CAT # 384-8512	500 hr
	6- DEF Filter 121504274 / CAT # 387-3187	5000 hr
<b>Oil Specification</b>		<b>Replacement</b>
CAT DEO (diesel engine oil) API CJ-4 SAE W30, 5W 30, 10W 30, 10W 40		500 hr/Yearly
<b>Coolant Fluid Specification</b>		<b>Replacement</b>
Antifreeze 60 / 40 with DCA4 or Long Life		Yearly
<b>Fuel Specification</b>		
Ultra low sulfur diesel fuel (<15ppm). According to EN 590		
<b>Diesel Exhaust Fluid Specification</b>		
In compliance with ISO 22241-1 standard		


### PLANETARIES

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50h, 500 hr, Yearly

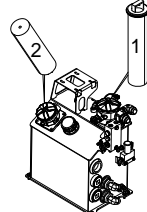
### TRANSFER CASE

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50 h, 500h

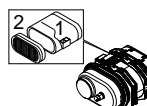
### WHEEL HUBS

	Oil Specification	Replacement
	Synthetic oil ISO Viscosity grade 220 SAE Viscosity 75w 90 or 75w 140	First 50 hr, 500 hr, Yearly

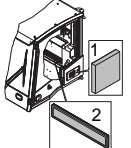
### HYDRAULIC/HYDROSTATIC

	Part Number	Replacement
	1- 171953060 2- 118700100	First 50 hr, Yearly
<b>Oil Specification</b>		<b>Replacement</b>
ATF type F or Shell Donax TF or oil in compliance with Ford ESW M2C33-F		Yearly

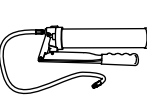
### ENGINE AIR FILTERS

	Part Number	Replacement
	1- 121504230 / CAT # 304-5632 2- 121504231 / CAT # 304-5633	Visual inspection as required


### CAB AIR FILTERS

	Parts Number	Replacement
	1- 114668507 2- 114668427	Visual inspection as required

### GREASE

	<b>Grease Specification</b>	
	Multi-season, lithium based, NLGI grade 1 EP rated with "MOLY" additives, water resistant, minimum service temperature of -40°C to 100°C (-40°F to 212°F) approved for automobile wheel bearing and chassis.	

### ENGINE DRIVE BELT

	Parts Number	Replacement
	1- 121504206 / CAT # 285-6217 2- 121504234	Visual inspection as required

## DAILY CHECK LIST

- ☒ Check hydraulic oil level
- ☒ Check engine oil level
- ☒ Check engine coolant level
- ☒ Check engine oil and cooling circuits for leaks
- ☒ Check fuel water separator
- ☒ Check air filter cleanliness
- ☒ Check engine belt tension
- ☒ Check A/C condenser for debris
- ☒ Check hydraulic system for leaks and damage
- ☒ Oil cooler and water cooler must be free of debris
- ☒ Check water cooler for leaks
- ☒ Clean the track drives if ground condition is poor
- ☒ Check tension of the track
- ☒ Check planetaries for leaks
- ☒ Check DEF level (Diesel exhaust fluid)

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