



HEAVY DUTY ENGINE MANUFACTURER'S RECOMMENDED DPF SERVICE INTERVALS GUIDE



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On-Highway Engine OEM DPF Service Intervals

Some truck builders use engines from several companies in their trucks.

Fuel economy plays a part in determining the engines recommended DPF service intervals.

Service intervals are greatly reduced when fuel economy is reduced. This is due to increased soot production from increased fuel burn. When fuel consumption increases, oil consumption increases as well causing an increase of ash accumulation in the DPF. These two factors cause a decrease in DPF service intervals.

Off-Highway Engine OEM DPF Service Intervals

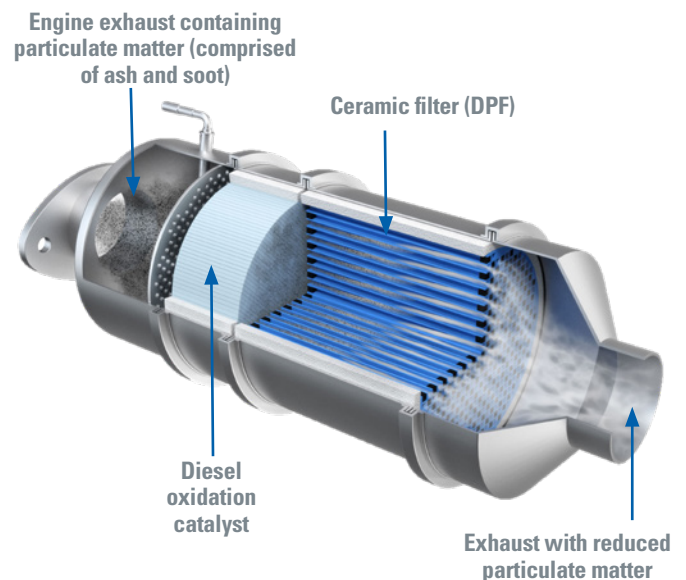
From our research, many OEMs are consistent with DPF service intervals across multiple models.

Diesel engine horsepower thresholds are the only thing that seem to make a difference.

Lower horsepower units have shorter DPF service intervals.

Intervals are greatly reduced when fuel economy is reduced. This is due to increased soot production from increased fuel burn. When fuel consumption increases, oil consumption increases as well causing an increase of ash accumulation in the DPF. These two factors cause a decrease in DPF intervals.

OEM recommendations contained in this brochure are the most recent we have from OEM literature or web information at the time of publication (July 2021). These may change at any time. Check with each respective OEM for any information updates.



- **As ash & soot build up in the DPF**, it increases engine back-pressure negatively impacting fuel economy
- **Active & Manual Regeneration** – elevating DPF temperature via additional fuel dosing – may be required to combust and relieve DPF clogging, negatively impacting fuel economy

On-Highway Diesel Engines

Mack

EXHAUST AFTERTREATMENT SYSTEM		NORMAL DUTY	HEAVY DUTY	SEVERE DUTY
Diesel Particle Filter (DPF) - Clean	Miles	400,000	400,000	250,000
	Kilometers	650,000	650,000	400,000
	Hours	10,000	10,000	4,500

NOTE: OEM also installs Cummins Engines. Refer to page 5.

NORMAL DUTY: Greater than 6 MPG, less than 39L/100KM

HEAVY DUTY: Greater than 5 MPG, less than 50L/100KM

SEVERE DUTY: Less than 5 MPG, greater than 50L/100KM

Volvo

EXHAUST AFTERTREATMENT SYSTEM		NORMAL DUTY	HEAVY DUTY	SEVERE DUTY
Diesel Particle Filter (DPF) - Clean	Miles	400,000	400,000	250,000
	Kilometers	650,000	650,000	400,000
	Hours	10,000	10,000	4,500
Aftertreatment Hydrocarbon Injector (AHI) Manufactured 2017 and newer replace AHI nozzle and perform data reset.	Miles	150,000	150,000	150,000
	Kilometers	240,000	240,000	240,000
	Hours	4,500	4,500	4,500
DEF, Pump and Tank Filler Neck Filter Drain DEF tank, replace DEF pump main filter, clean DEF tank neck filter.	Miles	150,000	150,000	150,000
	Kilometers	240,000	240,000	240,000
	Hours	4,500	4,500	4,500

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International

EXHAUST AFTERTREATMENT SYSTEM		NORMAL DUTY	HEAVY DUTY	SEVERE DUTY
Replace Fuel Filter	Miles	50,000	30,000	20,000
	Kilometers	80,000	48,000	32,000
	Hours	1,300	1,300	1,300
Clean DPF	Miles	600,000	500,000	350,000
	Kilometers	950,000	800,000	550,000
	Hours	11,000	9,000	9,000

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HEAVY DUTY: Greater than 5 MPG, less than 50L/100KM

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Kenworth & Peterbilt

EXHAUST AFTERTREATMENT SYSTEM		NORMAL DUTY	HEAVY DUTY	SEVERE DUTY
Fuel Filter	Miles	75,000	50,000	30,000
	Kilometers	120,000	80,000	48,000
Coolant Filter	Miles	300,000	300,000	300,000
	Kilometers	480,000	480,000	480,000
DEF Filter	Miles	300,000	300,000	300,000
	Kilometers	480,000	480,000	480,000
DPF Service	Miles	600,000	300,000	300,000
	Kilometers	960,000	480,000	480,000

NOTE: OEM also installs Cummins Engines. Refer to page 5.

NORMAL DUTY: Less than 20% Idle Time

HEAVY DUTY: Greater than 20% Idle Time

SEVERE DUTY

Detroit Diesel

EXHAUST AFTERTREATMENT SYSTEM		SEVERE DUTY	SHORT-HAUL	LONG-HAUL	EFFICIENT LONG-HAUL
Fuel Filter Change	Miles	35,000	45,000	60,000	75,000
	Kilometers	56,000	72,000	97,000	121,000
	Hours	750	1,000		
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000 and every 500,000 thereafter			
	Kilometers	Adjust at 160,000, at 800,000 and every 800,000 thereafter			
Diesel Particulate Filter A check engine light will illuminate with ash requires removal	Miles	500,000	500,000	500,000	500,000
	Kilometers	800,000	800,000	800,000	800,000
	Hours	11,000	11,000	11,000	11,000
DEF Pump Filter	Miles	500,000	500,000	500,000	500,000
	Kilometers	800,000	800,000	800,000	800,000

NOTE: OEM also installs Cummins Engines. Refer to this page.

Maintenance Intervals using Detroit Fluids Specification 93K222 (FA-4) Approved Oils

SEVERE DUTY: Less than 5 MPG; Less than 30,000 miles (48,000 kilometers) per year

SHORT-HAUL: 5.1-5.9 MPG; 30,000 - 60,000 miles (48,000 - 96,000 kilometers) per year

LONG-HAUL: 6.0-6.9 MPG; Greater than 60,000 miles (96,000 kilometers) per year

EFFICIENT LONG-HAUL: Greater than 7 MPG; Greater than 60,000 miles (96,000 kilometers) per year)

Cummins

EXHAUST AFTERTREATMENT SYSTEM		SEVERE DUTY	NORMAL DUTY	LIGHT DUTY
DPF Ash Maintenance	Miles	250,000 - 400,000	400,000 - 600,000	600,000 - 800,000
	Kilometers	400,000 - 600,000	600,000 - 950,000	950,000 - 1,250,000

NOTE: Cummins recommends using Cummins genuine DPFs over cleaning of the DPF at the DPF ash maintenance interval. Users can experience extended DPF ash maintenance using the DPF maintenance fault lamp (FC5383).

SEVERE DUTY: Less than 5.5 MPG

NORMAL DUTY: 5.5 - 6.5 MPG

LIGH DUTY: Greater than 6.5 MPG

Off-Highway Diesel Engines

OEM	DPF Service Intervals by Engine Hours
Case	4,000
CAT (up to 100 HP)	3,000
CAT	5,000
Deere	5,000
Komatsu	4,500
Komatsu (up to 100 HP)	3,000
Kress	5,000
Volvo (up to 200 HP)	3,000
Volvo	5,000



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