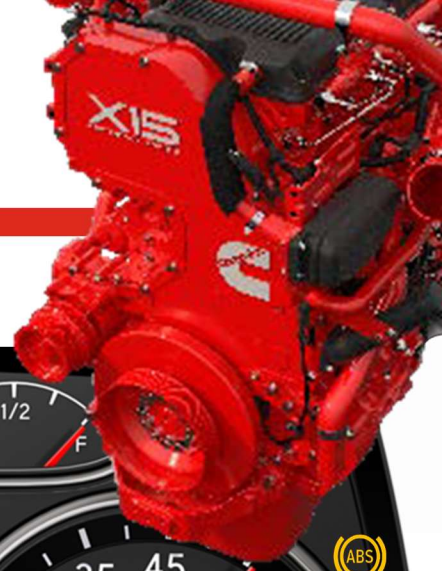




2024 X15

Quick Reference



WAIT TO START LAMP

-Illuminates solid **YELLOW** with key on when inlet air heater is required for cold starting. When the Wait to Start lamp begins flashing, start the engine.



DIESEL PARTICULATE FILTER (DPF)

-Illuminates **YELLOW** with heavy soot loading of the DPF and a regeneration is needed. See reverse side for additional details.



HIGH EXHAUST SYSTEM TEMPERATURE (HEST)

-Illuminates **YELLOW** when exhaust temperature is high from a DPF regeneration and vehicle is at low speed. This is normal and does not indicate a need for service. When illuminated, keep exhaust away from people and flammable areas.



DIESEL EXHAUST FLUID (DEF) LAMP

-Illuminates **YELLOW** when the DEF fluid level is low. See reverse side for additional details.



MAINTENANCE LAMP

-Illuminates **YELLOW** in conjunction with other warning lights or general text and warning messages when routine maintenance is due. It may be accompanied by an audible alarm to indicate an alert condition to the operator.



RED STOP LAMP (RSL)

-Illuminates **RED** and an alarm will sound when a serious problem has occurred. The lamp is used in conjunction with other warning lights or general text and warning messages to indicate a STOP alert. To prevent engine damage, shut down engine as soon as it is safe to do so.



MALFUNCTION INDICATOR LAMP (MIL)

-Illuminates **YELLOW** when the Heavy-Duty On-Board Diagnostics (HD-OBD) system detects a malfunction related to the emissions control system. The illuminated MIL indicates the vehicle needs to be serviced at the first convenient opportunity. Lamp may remain active after repair until system operation confirms repair.



AMBER WARNING LAMP (AWL)

-Illuminates **YELLOW** under certain high load and / or high ambient temperature conditions. It is safe to drive the vehicle. However, if the lamp continues to illuminate, contact an authorized service provider to have the problem corrected at the first opportunity.



ANTILOCK BRAKE MALFUNCTION

-Illuminates **AMBER** if there is a malfunction in the system. Service vehicle immediately.



IDLE SHUTDOWN

-This is a fuel saving feature which automatically shuts the engine down after a programmed time at idle. When the engine is ready to shutdown the dash light will begin to flash for thirty seconds.



ENGINE BRAKE

-Illuminates **GREEN** when the engine brake is active.

* OBD SELF HEALING

Environment Protection Agency (EPA) 2017 heavy duty on-highway engines are equipped with On-Board Diagnostics (OBD). The OBD system monitors and reports malfunctions that impact the emissions control devices. If the OBD system detects such a malfunction, the OBD system illuminates a Malfunction Indicator Lamp (MIL). The truck may continue to be operated normally when the MIL lamp is illuminated. After three drive cycles, the MIL lamp may extinguish if the fault is no longer detected. However if after three drive cycles if the lamp is still illuminated, the truck needs to be scheduled in for service.

** DRIVE CYCLE

Engine is started with coolant temperature below 140°F and is operated over 170°F

*** DPF REGENERATION

The exhaust DPF system processes engine exhaust to meet tailpipe emission requirements. The DPF system traps particulate matter (soot). The trapped particulate matter is then converted to ash when the exhaust gas temperature is high enough, either by passive regeneration or by active regeneration, when the fuel doser injects fuel into the exhaust. See reverse side for details on DPF soot load status and performing a regeneration.

**** DPF LIGHT FLASHING WITH BEEPING ALARM

A flashing DPF light with an audible alarm indicates the DPF is completely full and engine power may be limited to prevent damage. It is recommended a parked regeneration is performed as soon as possible to avoid damage to the engine or exhaust system.



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2024 CUMMINS REGIONAL AND LINE HAUL SERVICE INTERVALS - X15

Duty Cycle (MPG)	Severe (3-4.9)	Short Haul (5-5.9)	Normal (6-6.9)	Light (7+)
Oil Drain Interval	25,000 miles / 12 months	50,000 miles / 12 months	60,000 miles / 12 months	75,000 miles / 12 months
	20,000 miles / 12 months / 500 hours for vocational applications			
Oil Drain with Valvoline PB	30,000 miles / 12 months	55,000 miles / 12 months	65,000 miles / 12 months	80,000 miles / 12 months
Oil Drain with OilGuard	extensions available	extensions available	extensions available	Up to 100,000
Fuel Filter	25,000 miles	50,000 miles	60,000 miles	75,000 miles / 12 months
DEF Filter	300,000 miles / 6,750 hours			
Particulate Filter	250,000 - 400,000 miles	400,000 - 600,000 miles	600,000 - 800,000 mi	
Overhead Adjustment	500,000 miles / 10,000 hours / 60 months			

DPF INDICATOR CHART

Lamp	Description	Driver action
	Check Engine Lamp Lights up to warn the driver to seek service soon. Flashing Check Engine Lamp Will flash for 30 seconds at key ON if feature is enabled and maintenance is due.	Service must be performed at earliest opportunity. Vehicle may still be operated until end of shift.
	Malfunction Indicator Lamp (MIL) Lights up to warn the driver to schedule service soon. May light up in addition to other lamps.	
	Red Stop Engine Lamp Indicates that engine must be stopped as soon as it is safe to do so. Flashing Red Stop Engine Lamp Indicates driver has 30 seconds to stop vehicle safely before automatic engine shutdown (if the Engine Protection Shutdown feature is enabled).	Vehicle must not be operated. Arrange for immediate service.
	High Exhaust System Temperature (HEST) Lamp Indicates that high exhaust temperatures may exist due to aftertreatment regeneration.	Make sure exhaust pipe outlet is not directed at any combustible surface or material. If excessive odor or white vapor are present, have exhaust system inspected for leaks.
	Aftertreatment DPF Lamp Indicates that the aftertreatment Diesel Particulate Filter (DPF) requires regeneration. Flashing Aftertreatment DPF Lamp Aftertreatment DPF requires regeneration. Engine power may be reduced automatically.	1. Make sure the DPF Switch is not in the Inhibit position. 2. At earliest opportunity, bring vehicle to highway speed for at least 20 minutes. 3. If previous step is not possible or if lamps remain illuminated, perform a parked regeneration.
	Flashing Aftertreatment DPF Lamp & Check Engine Lamp Aftertreatment DPF requires immediate regeneration. Engine power will be automatically reduced further.	Note: An illuminated HEST Lamp will indicate that regeneration is underway. Vehicle must not be operated. Arrange for immediate service.
	Red Stop Engine Lamp and Aftertreatment DPF Lamp Aftertreatment DPF regeneration has not been completed successfully in a timely manner.	









*See Operator's Manual for further details.

WARNING

- Failure to follow these instructions may result in a severe loss of engine power, vehicle speed, and may cause an accident or fire resulting in property damage, personal injury, or death.
- Failure to increase engine load by driving on highway at highway speeds OR to start Parked Regeneration when Exhaust Filter Indicator is ON will cause the engine to lose power.
- When performing Parked Regeneration, make certain vehicle is safely off roadway away from any flammable materials.

DIESEL EXHAUST FLUID LAMP

Four stages of DEF-related warnings

Lamp	Description	DEF gauge	Driver action
1. 	Solid Diesel Exhaust Fluid (DEF) Lamp DEF level is low		Refill DEF tank with correct type of DEF.
2. 	Solid DEF Lamp and Check Engine Lamp Indicates lower DEF level, incorrect DEF type or an SCR system issue. Driver will experience a mild loss of engine power.		Refill DEF tank with correct type of DEF as soon as possible. If lamps stay on, schedule service immediately.
3. 	Flashing DEF Lamp and Solid Check Engine Lamp Indicates that DEF level is critically low, incorrect DEF type or an SCR system issue for more than 5 hours. Driver will experience a severe loss of engine power.		
4. 	Stop Engine Lamp with Flashing DEF Lamp and Solid Check Engine Lamp Indicates that DEF level is critically low and fuel tank has been refilled without refilling DEF tank, or engine has idled for an hour or been shut down. Vehicle will be limited to a speed of 5 mph.		

DISCLAIMER: This is a quick reference guide provided by Southland International Trucks, Inc. Information contained in this quick reference guide are excerpts from manufacturers' owner's manuals and have been abbreviated. Must refer to manufacturers' manuals for complete details.