



## Technical Information Bulletin

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### E256

#### Next Service Due

Date

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Mileage

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Engine Hours

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### Section

Engine - 45

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### Subject

PACCAR MX-13 and MX-11 Oil Change Intervals

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### Release Date

12/10/2019

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### Condition

Customers may only be using mileage and not accounting for engine hours, time, and other important factors when they determine the appropriate engine oil change interval for their particular case.

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### Action

#### Information Only

Remind customers of all the factors that must be accounted for to determine the appropriate oil change interval for their particular case. See the Background section below.

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### Background

To provide the best protection for PACCAR MX series engines, customers must ensure they take into account, not just mileage when they determine their oil change intervals, but also:

- Engine hours
- Time
- Fuel consumption
- Gross Vehicle Weight
- Application
- Whether or not they use B6-B20 biodiesel fuel

The following information is taken directly from the latest revision of the PACCAR MX-11 and MX-13 Engine Operator's manuals:

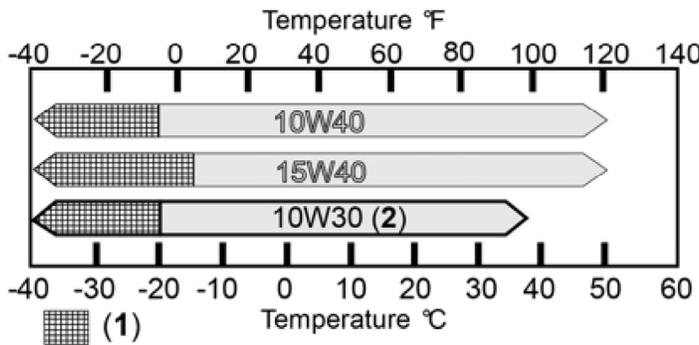
### Engine Lubricating Oil Recommendations and Specifications

A major factor in maintaining engine performance and durability is the proper use of quality engine lubricating oils used in conjunction with the appropriate oil drain and filter change intervals. Attempting to extend the oil and filter change interval beyond the manufacturer's recommendations may decrease engine life due to factors such as corrosion, deposits, and wear.

<b>i</b>	<b>NOTE</b>
It is the operator's responsibility to follow these recommendations to ensure that the engine warranty is not affected. PACCAR recommends the use of high quality SAE 10W-30 API CK-4/CJ-4 heavy duty engine oil.	

The primary PACCAR recommendation is for the use of 10W-30 multigrade lubricating oil for normal operation at ambient temperatures above 5°F (-15°C). Using a multigrade oil helps improve engine cranking in low-temperature conditions, reduces deposit formation, and increases engine durability and fuel economy.

### Engine Oil Viscosity Chart



- If engine is equipped with an active oil pan heater, use before engine start.
- Initial factory oil fill: API CK-4 10W-30

<b>i</b>	<b>NOTE</b>
Any of the oil weights listed in the chart above are acceptable to use as long as the oil meets API CK-4/CJ-4 oil specifications.	

### Engine Lubrication and Filter Intervals

Oil drain interval recommendations are based on vehicle application or engine duty cycle.

<b>⚠</b>	<b>CAUTION</b>
Extending the oil and filter change interval beyond the recommendations will decrease the engine life due to factors such as corrosion, deposits, and wear. Engine oil filters capture dirt and remove deposits from the oil to prolong the life of internal moving components. Follow the oil and filter change intervals as recommended in this section of the manual. Failure to comply may result in equipment or property damage.	

### Determining Type of Vehicle Application for Engine Oil Drain Intervals

	Severe Duty – Vocational*	Normal Duty – Line Haul
Fuel Consumption	Less than 6 MPG (2.6 km/L)	6 MPG (2.6 km/L) or greater
Gross Vehicle Weight	Greater than 80,000 lb. (36,300 kg)	80,000 lb. (36,300 kg) or less

\* Vocational vehicle applications include: Agriculture, Concrete Mixers, Construction, Crane, Dumps, Emergency/Fire, Heavy Equipment, Loggers, Mining, Oil Field, Refuse, Pick-up & Delivery, Snowplows, and Wrecker.

	Vehicle Application	Change Interval
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Oil drain and filter replacement interval	Normal Duty (Line Haul) – less than 20% idle time	75,000 miles (120,000 km) 2,250 hours or 12 months
	Normal Duty (Line Haul) – more than 20% idle time	50,000 miles (80,000 km) 1,500 hours or 12 months
	Sever Duty (Vocational*)	30,000 miles (48,000 km) 800 hours or 12 months

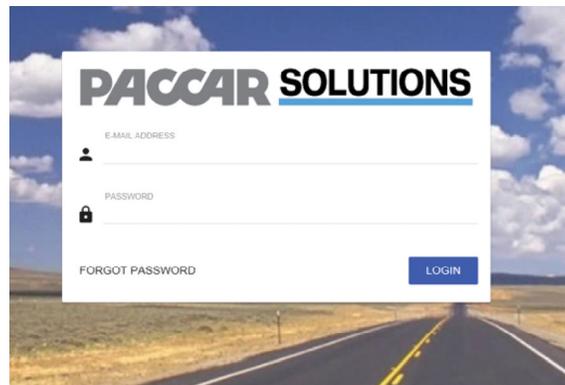
\* Vocational vehicle applications include: Agriculture, Concrete Mixers, Construction, Crane, Dumps, Emergency/Fire, Heavy Equipment, Loggers, Mining, Oil Field, Refuse, Pick-up & Delivery, Snowplows, and Wrecker.

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**NOTE**

If B6-B20 biodiesel fuel is used, the oil and filter must be changed every 40,000 mi (64,000 km) for line haul applications; every 20,000 mi (32,000 km) for severe duty, or every six months.

**Determining Fuel Economy, Idle time, and engine hours with PACCAR Solutions**  
[www.paccarsolutions.com](http://www.paccarsolutions.com)



1. In PACCAR Solutions, select your vehicle.
2. On the right side of the Vehicle Details section, under Vehicle Performance, the fuel economy, percent idle, and engine hours are displayed.

**Vehicle Details**

<p><b>Recommendation</b></p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <span style="font-size: 1.2em; font-weight: bold;">i</span> <b>Informational</b>                      Notification of potential trouble.                 </div> <p><b>Last Location</b></p>	<p><b>Vehicle Information</b></p> <p>CUSTOMER</p> <p>YEAR MAKE MODEL</p> <p>UNIT NUMBER</p> <p>DESCRIPTION</p> <p>VIN</p> <p>DSN</p> <p>MILEAGE (MI) 201609.9</p>	<div style="background-color: #fff9c4; padding: 5px; border: 1px solid #ccc;"> <p><b>Vehicle Performance</b></p> <p>FUEL ECONOMY (MPG) 5.2</p> <p>PERCENT IDLE (%) 23.8</p> <p>ENGINE HOURS (HRS) 7217.0</p> </div>
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Authored by: OF

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