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These parts were pulled from a 2014 PACCAR MX-13 pulling a refrigerated trailer in coast-tocoast service from its base in the southeastern US. Oil drains were at 45,000 mile intervals using Guardol FE<sup>®</sup> 10W-30 (FA-4). Tear down was performed in 2017 after quickly accumulating 500,000 miles.



Piston 1 - Thrust

# PISTONS

# **500,000 MILES**





Piston 1 - Crown



Piston 1 - Anti Thrust

500,000 miles is when many fleets begin considering whether to sell a truck or end a lease. The pistons show very little carbon deposits in the ring grooves and no piston skirt scuffing. Guardol FE 10W-30 provides assurance that your equipment is protected for the long haul.



Piston 1 - Undercrown



Valve Train Component



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# VALVE TRAIN COMPONENTS.

Minimal wear scars on critical valve train components indicate excellent anti-wear protection from Guardol FE® 10W-30 (FA-4).

**OIL PAN.** 

The oil pan is where sludge is often found in engine teardowns. Close inspection of the photo here tells a different story.



Valve Train Component

### Oil Pan



Main Bearing Upper



# MAIN **BEARINGS.**

Bearings are where a poor performing product would quickly be exposed. The excellent High Temperature/High Shear (HTHS) properties of our FA-4 oil provide protection equivalent to our premium CK-4 15W-40.

ROD **BEARINGS.** 

Rod bearings show little to no wear. Guardol FE® 10W-30 provides maximum durability.







### **Rod Bearing Upper**

### **Rod Bearing Lower**





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