



OIL ANALYSIS REPORT

| | |
|-----------------|------------------|
| WEAR | NORMAL |
| CONTAMINATION | MARGINAL |
| FLUID CONDITION | ATTENTION |

Machine Id
PETERBILT 8465102
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (50 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0021929 | RPL0019404 | RPL0017429 |
| Sample Date | | Client Info | | 20 Jun 2024 | 25 Mar 2024 | 22 Dec 2023 |
| Machine Age | mls | Client Info | | 74827 | 67185 | 57534 |
| Oil Age | mls | Client Info | | 67185 | 9651 | 57534 |
| Filter Age | mls | Client Info | | 0 | 9651 | 0 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >165 | 7 | 26 | 14 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 8 | 6 |
| Lead | ppm | ASTM D5185m | >150 | 1 | 7 | 4 |
| Copper | ppm | ASTM D5185m | >90 | 1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >5 | <1 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

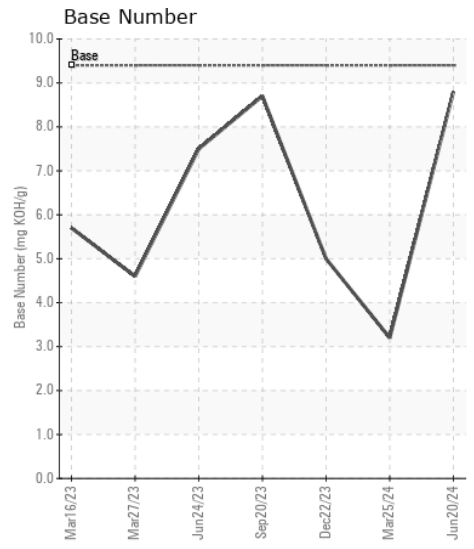
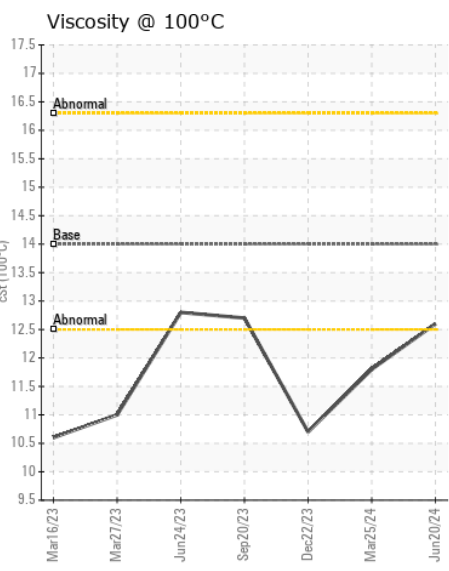
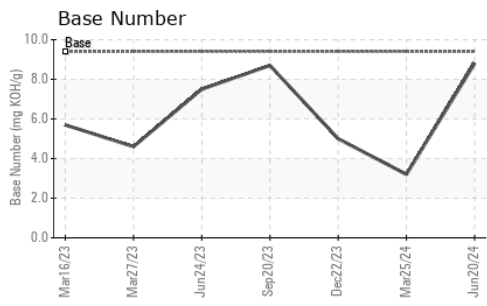
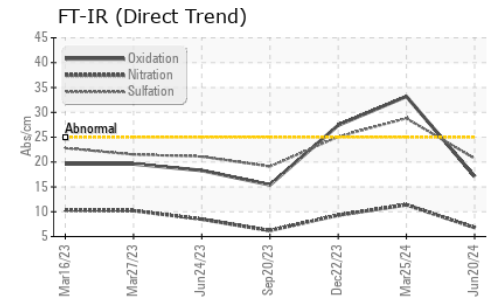
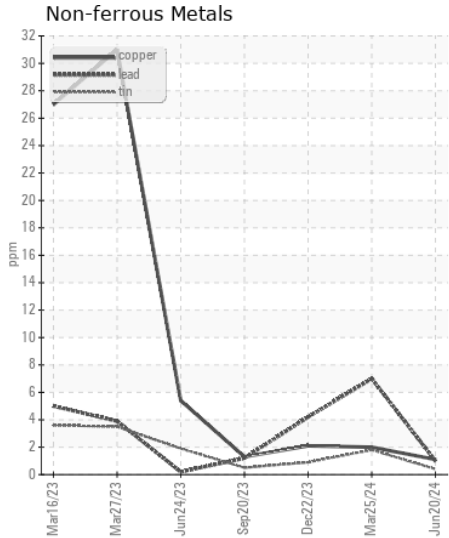
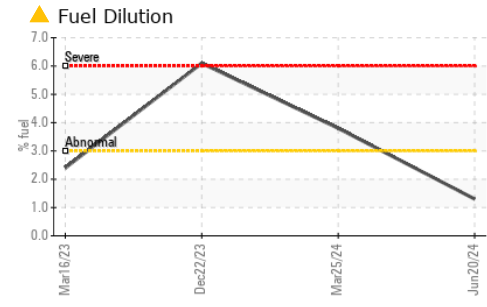
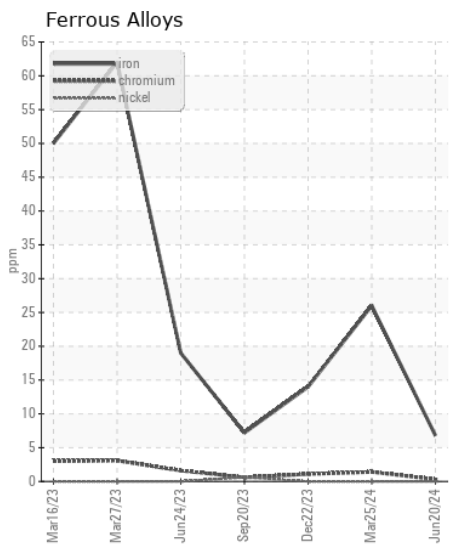
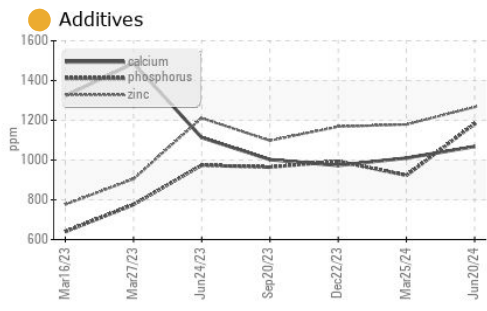
Light fuel dilution occurring. No other contaminants were detected in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >35 | 5 | 10 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | 9 | 26 | 14 |
| Fuel | % | ASTM D3524 | >3.0 | ▲ 1.3 | ▲ 3.8 | ▲ 6.1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >7.5 | 0.1 | 0.3 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.8 | 11.4 | 9.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.7 | 28.8 | 25.1 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|---------------|--------|--------|
| Sodium | ppm | ASTM D5185m | | 1 | 1 | <1 |
| Boron | ppm | ASTM D5185m | 0 | 3 | 3 | 3 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 60 | 57 | 56 |
| Manganese | ppm | ASTM D5185m | | 0 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | ● 921 | 909 | 889 |
| Calcium | ppm | ASTM D5185m | | ● 1068 | 1010 | 973 |
| Phosphorus | ppm | ASTM D5185m | | ● 1182 | 923 | 994 |
| Zinc | ppm | ASTM D5185m | | 1267 | 1179 | 1168 |
| Sulfur | ppm | ASTM D5185m | | 3274 | 3090 | 2696 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.1 | 33.2 | 27.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 8.8 | ▲ 3.2 | 5.0 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.6 | ▲ 11.8 | ▲ 10.7 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021929 **Received** : 08 Jul 2024
Lab Number : 06230031 **Tested** : 11 Jul 2024
Unique Number : 11113524 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
 carrolag@rushenterprises.com
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)