



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area
{UNASSIGNED}

Machine Id
PETERBILT 117344

Component
Diesel Engine

Fluid
CHEVRON 15W40 (26 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | RPL0009877 | RPL0009830 | --- |
| Sample Date | | Client Info | | 23 Oct 2023 | 25 Apr 2023 | --- |
| Machine Age | mls | Client Info | | 82015 | 82015 | --- |
| Oil Age | mls | Client Info | | 82015 | 0 | --- |
| Filter Age | mls | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | Changed | --- |
| Filter Changed | | Client Info | | N/A | Changed | --- |
| Sample Status | | | | NORMAL | MARGINAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 53 | 64 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 3 | 4 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 2 | 1 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 6 | 11 | --- |
| Lead | ppm | ASTM D5185m | >40 | 1 | 1 | --- |
| Copper | ppm | ASTM D5185m | >330 | 4 | 6 | --- |
| Tin | ppm | ASTM D5185m | >15 | 1 | 1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

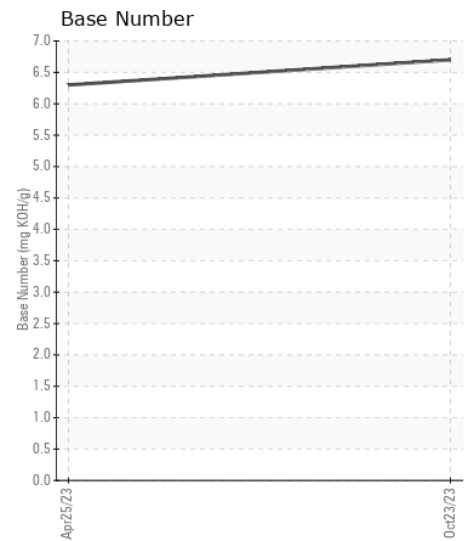
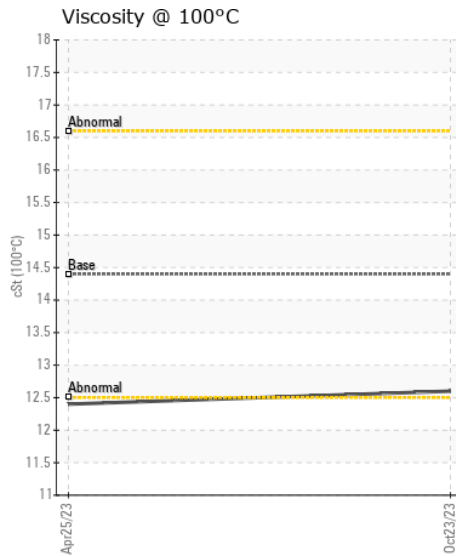
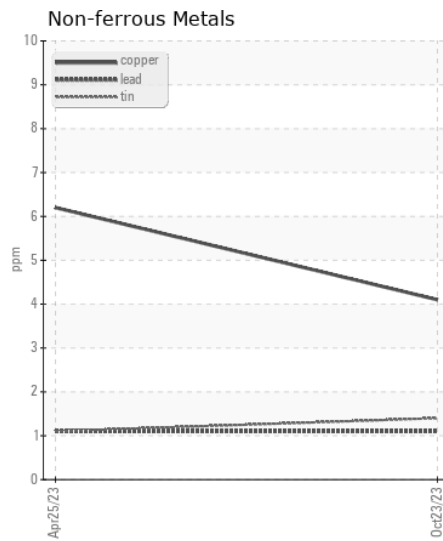
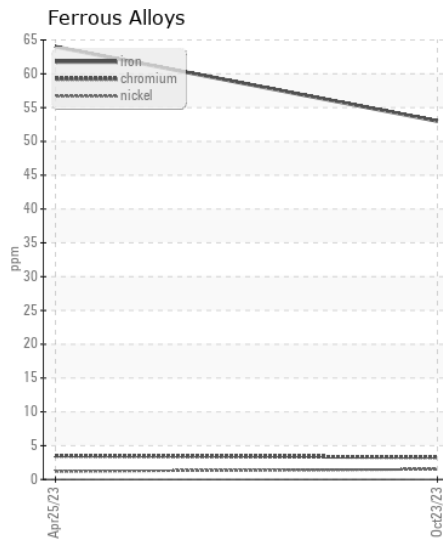
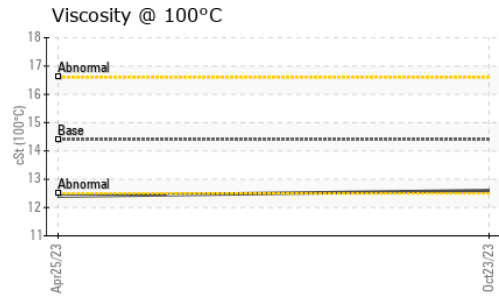
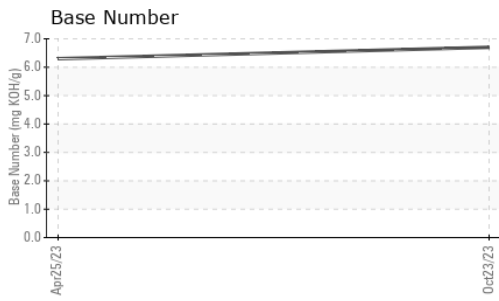
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 11 | 9 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 13 | 20 | --- |
| Fuel | | WC Method | >5 | <1.0 | ▲ 3.1 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.6 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.4 | 10.5 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.1 | 23.9 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

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 | >50 | 0 | <1 | --- |
| Boron | ppm | ASTM D5185m | | 242 | 152 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 84 | 80 | --- |
| Manganese | ppm | ASTM D5185m | | 1 | 1 | --- |
| Magnesium | ppm | ASTM D5185m | | 399 | 399 | --- |
| Calcium | ppm | ASTM D5185m | | 1396 | 1417 | --- |
| Phosphorus | ppm | ASTM D5185m | | 888 | 935 | --- |
| Zinc | ppm | ASTM D5185m | | 1255 | 1190 | --- |
| Sulfur | ppm | ASTM D5185m | | 3181 | 3271 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.3 | 18.7 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.7 | 6.3 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 12.6 | 12.4 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0009877 **Received** : 09 Jan 2024
Lab Number : 06055232 **Diagnosed** : 11 Jan 2024
Unique Number : 10821181 **Diagnostician** : Wes Davis
Test Package : FLEET

RTL PACLEASE - 7019 - Birmingham
 601 Republic Circle
 Birmingham, AL
 US 35214
 Contact: Johnathan King
 KingJ1@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)