



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
PETERBILT 495078
Component
Diesel Engine
Fluid
DRYDENE 15W40 (20 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | RPL0017786 | RPL0006959 | --- |
| Sample Date | | Client Info | | 15 May 2024 | 09 Nov 2022 | --- |
| Machine Age | mls | Client Info | | 188206 | 146383 | --- |
| Oil Age | mls | Client Info | | 2022 | 14938 | --- |
| Filter Age | mls | Client Info | | 2022 | 14938 | --- |
| Oil Changed | | Client Info | | Not Changd | Changed | --- |
| Filter Changed | | Client Info | | Not Changd | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 20 | 28 | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 4 | --- |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 10 | 6 | --- |
| Lead | ppm | ASTM D5185m | >40 | 1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >330 | 2 | 1 | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

There is no indication of any contamination in the oil.

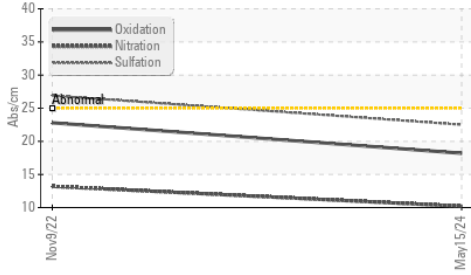
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 8 | 7 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 22 | 11 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | 0.7 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.2 | 13.2 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.5 | 26.9 | --- |
| 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

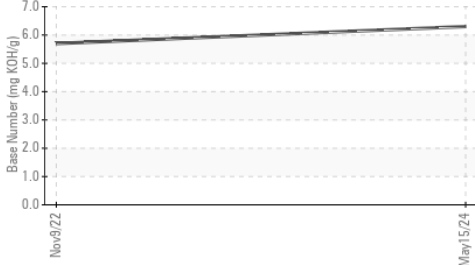
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 1 | 1 | --- |
| Boron | ppm | ASTM D5185m | | 92 | 14 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 92 | 94 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 208 | 108 | --- |
| Calcium | ppm | ASTM D5185m | | 2207 | 2343 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1060 | 1059 | --- |
| Zinc | ppm | ASTM D5185m | | 1289 | 1299 | --- |
| Sulfur | ppm | ASTM D5185m | | 4137 | 4031 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.2 | 22.8 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.3 | 5.7 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.4 | 13.8 | --- |

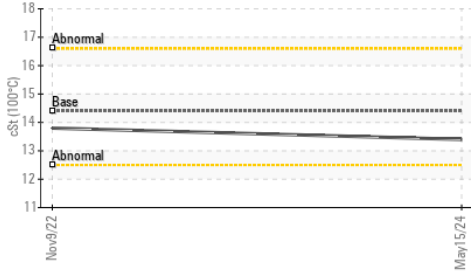
FT-IR (Direct Trend)



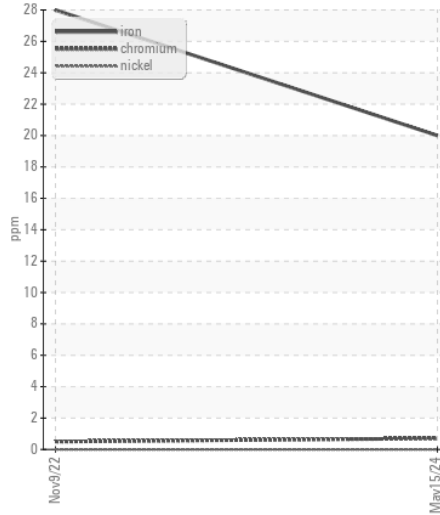
Base Number



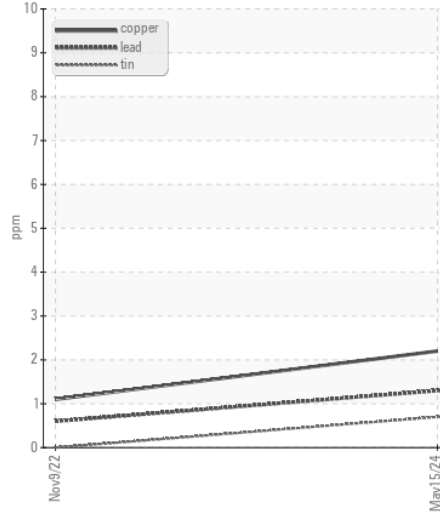
Viscosity @ 100°C



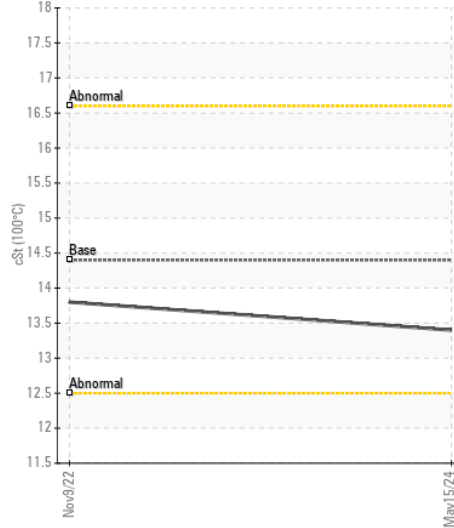
Ferrous Alloys



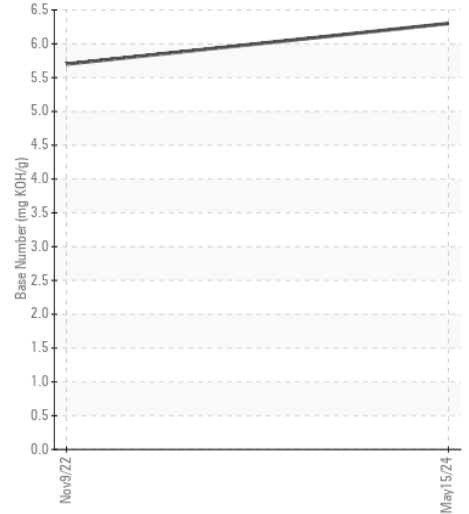
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : RPL0017786
 Lab Number : 06188388
 Unique Number : 11045140
 Test Package : FLEET

Received : 22 May 2024
 Tested : 28 May 2024
 Diagnosed : 28 May 2024 - Sean Felton

RTL PACLEASE - 7026 - Jacksonville
 718 Lane Ave N
 Jacksonville, FL
 US 32254

Contact: John Castleberry
 CastleberryJ@RushEnterprises.com

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)

T: (904)559-4902
 F: