



OIL ANALYSIS REPORT

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

Area
[PAC7025]
 Machine Id
PETERBILT 496557
 Component
Diesel Engine
 Fluid
CITGO CITGUARD 600 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | RPL0004217 | --- | --- |
| Sample Date | | Client Info | | 03 Jun 2024 | --- | --- |
| Machine Age | mls | Client Info | | 130420 | --- | --- |
| Oil Age | mls | Client Info | | 43443 | --- | --- |
| Filter Age | mls | Client Info | | 43443 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >100 | 31 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 7 | --- | --- |
| Lead | ppm | ASTM D5185m | >40 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >330 | 2 | --- | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

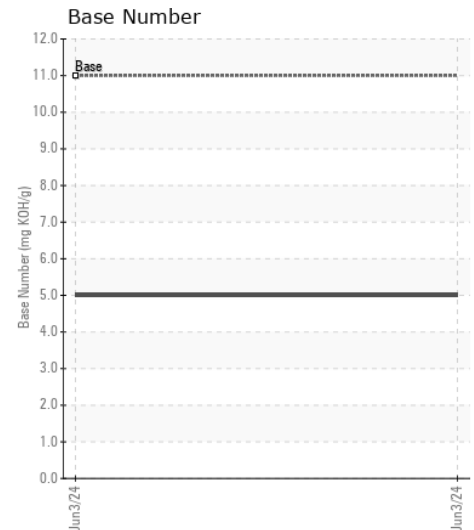
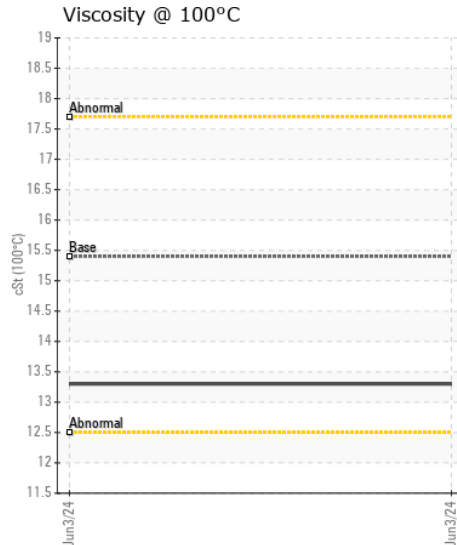
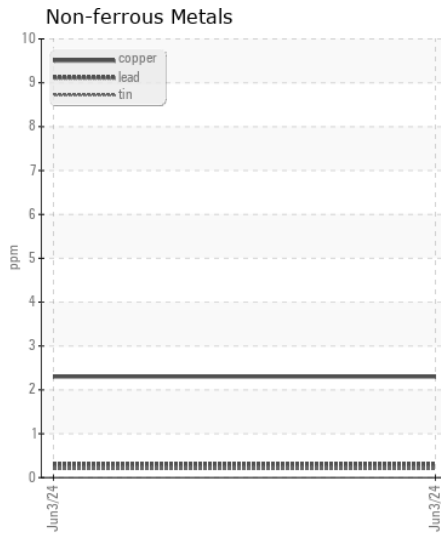
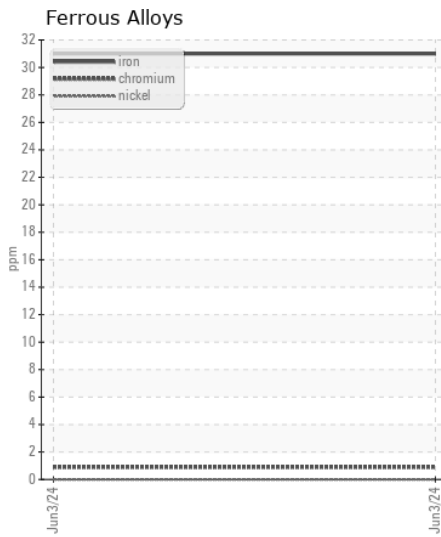
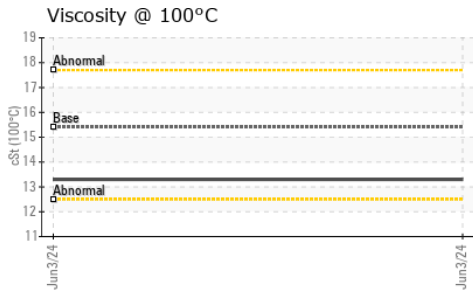
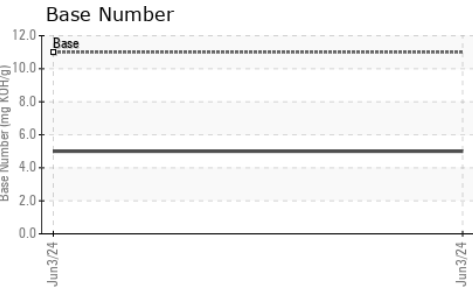
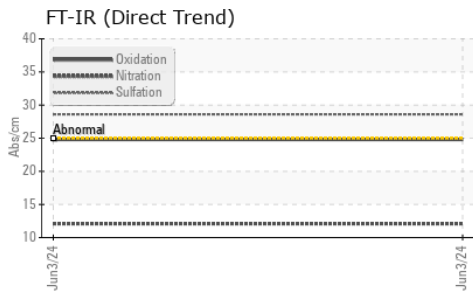
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >25 | 12 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 16 | --- | --- |
| Fuel | | WC Method | >5 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 12.1 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 28.6 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | 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 | | 1 | --- | --- |
| Boron | ppm | ASTM D5185m | 13 | 24 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 57 | 79 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 825 | 583 | --- | --- |
| Calcium | ppm | ASTM D5185m | 1100 | 2000 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 933 | 1212 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1089 | 1554 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 2769 | 3859 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.8 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 11.0 | 5.0 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.3 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RPL0004217

Lab Number : 06223361

Unique Number : 11101558

Test Package : FLEET

Received : 28 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Wes Davis

RTL PACLEASE - 7025 - Tampa

8109 East Adamo Drive

Tampa, FL

US 33619

Contact: Michael Reid

REIDM@RushEnterprises.com

T: (813)371-2130

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)