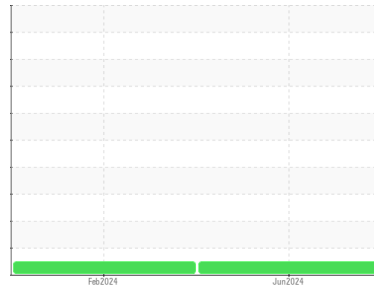


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(P1184786) Preferred Service-Tractor
 Machine Id
[Preferred Service-Tractor] 192A32032B
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W30 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | PCA0126916 | PCA0116699 | --- |
| Sample Date | Client Info | | 13 Jun 2024 | 11 Feb 2024 | --- |
| Machine Age | mls | Client Info | 62647 | 46480 | --- |
| Oil Age | mls | Client Info | 16167 | 30291 | --- |
| Oil Changed | Client Info | | Not Chngd | N/A | --- |
| Sample Status | | | NORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >6.0 | <1.0 | <1.0 | --- |
| Water | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | WC Method | | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >100 | 37 | 70 | --- |
| Chromium | ppm | ASTM D5185m >20 | <1 | 1 | --- |
| Nickel | ppm | ASTM D5185m >2 | <1 | 1 | --- |
| Titanium | ppm | ASTM D5185m | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m >2 | <1 | <1 | --- |
| Aluminum | ppm | ASTM D5185m >25 | 6 | 17 | --- |
| Lead | ppm | ASTM D5185m >40 | 0 | 1 | --- |
| Copper | ppm | ASTM D5185m >330 | 29 | 105 | --- |
| Tin | ppm | ASTM D5185m >15 | 2 | 6 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0 | 14 | 14 | --- |
| Barium | ppm | ASTM D5185m 0 | <1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m 64 | 57 | 63 | --- |
| Manganese | ppm | ASTM D5185m 0 | 0 | 1 | --- |
| Magnesium | ppm | ASTM D5185m 1160 | 1088 | 1138 | --- |
| Calcium | ppm | ASTM D5185m 820 | 834 | 873 | --- |
| Phosphorus | ppm | ASTM D5185m 1160 | 1014 | 980 | --- |
| Zinc | ppm | ASTM D5185m 1260 | 1226 | 1277 | --- |
| Sulfur | ppm | ASTM D5185m 3000 | 2814 | 2872 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 7 | 12 | --- |
| Sodium | ppm | ASTM D5185m | 3 | 5 | --- |
| Potassium | ppm | ASTM D5185m >20 | 19 | 57 | --- |

INFRA-RED

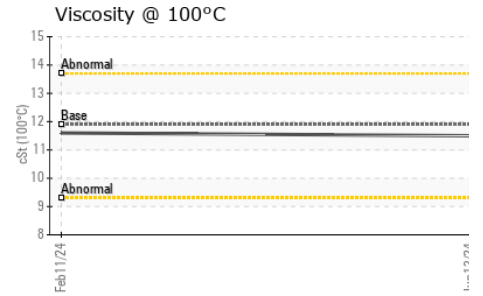
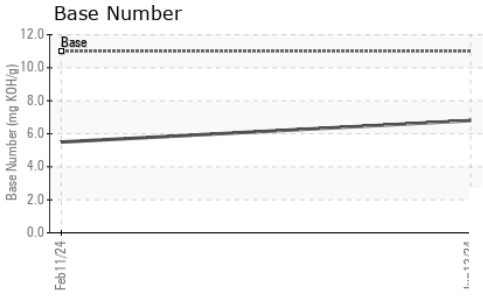
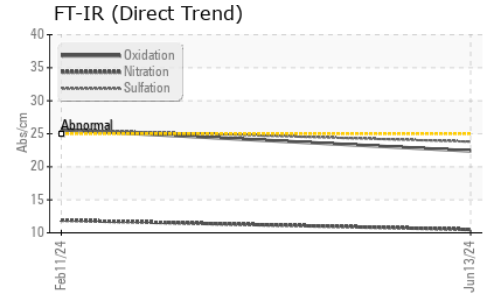
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.7 | 1 | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 10.5 | 11.9 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 23.8 | 25.6 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 22.4 | 25.6 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 11.0 | 6.8 | 5.5 | --- |



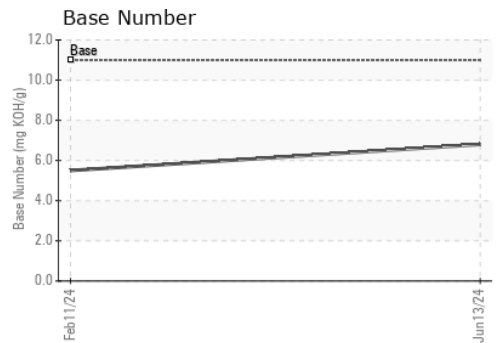
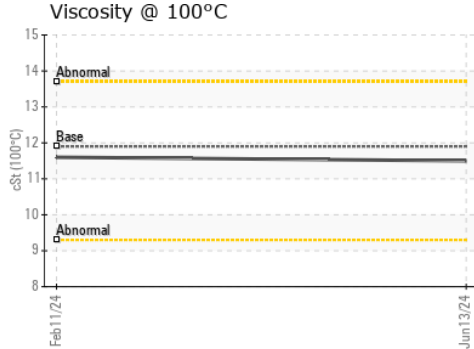
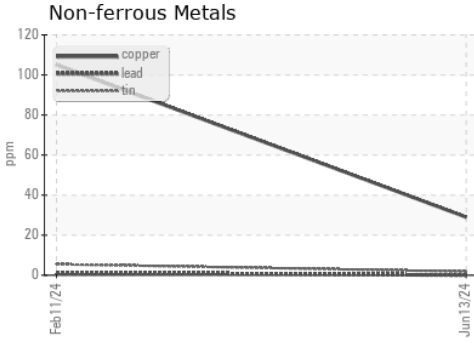
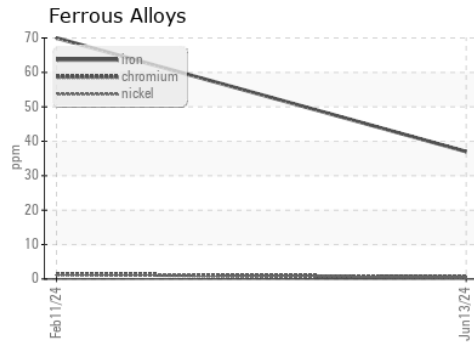
OIL ANALYSIS REPORT



| PARAMETER | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 11.5 | 11.6 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0126916
Lab Number : 06214203
Unique Number : 11087067
Test Package : FLEET

Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

Transervice - Shop 1920 - Preferred Service
 1955 W. North Avenue, Bldg K
 Melrose Park, IL
 US 60160

Contact: Tom Lindeman
 tlindemann@transervice.com
 T: (630)376-8946

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)

F: