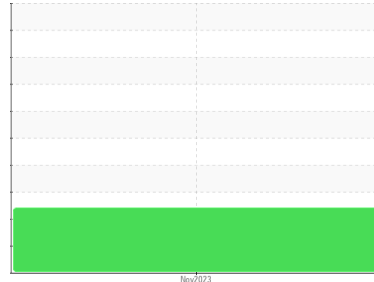


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
5100
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

- Recommendation**
 We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.
- Wear**
 All component wear rates are normal.
- Contamination**
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- 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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | PCA0113391 | --- | --- |
| Sample Date | Client Info | | 24 Nov 2023 | --- | --- |
| Machine Age | mls | Client Info | 0 | --- | --- |
| Oil Age | mls | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | --- | --- |
| Water | WC Method | >0.2 | NEG | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >100 | 90 | --- | --- |
| Chromium | ppm | ASTM D5185m >20 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m >4 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | 0 | --- | --- |
| Silver | ppm | ASTM D5185m >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >20 | ▲ 16 | --- | --- |
| Lead | ppm | ASTM D5185m >40 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m >330 | 273 | --- | --- |
| Tin | ppm | ASTM D5185m >15 | 6 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | 92 | --- | --- |
| Barium | ppm | ASTM D5185m 0 | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 50 | 25 | --- | --- |
| Manganese | ppm | ASTM D5185m 0 | 3 | --- | --- |
| Magnesium | ppm | ASTM D5185m 950 | 142 | --- | --- |
| Calcium | ppm | ASTM D5185m 1050 | 1068 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 995 | 855 | --- | --- |
| Zinc | ppm | ASTM D5185m 1180 | 1113 | --- | --- |
| Sulfur | ppm | ASTM D5185m 2600 | 2734 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|-------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | ▲ 54 | --- | --- |
| Sodium | ppm | ASTM D5185m | 4 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 6 | --- | --- |

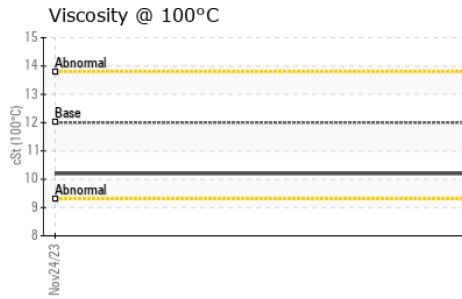
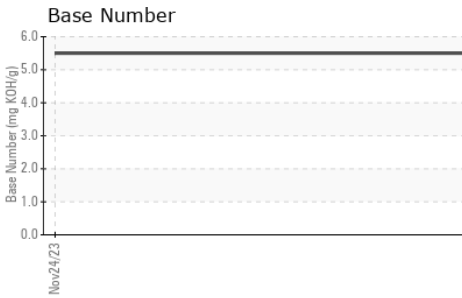
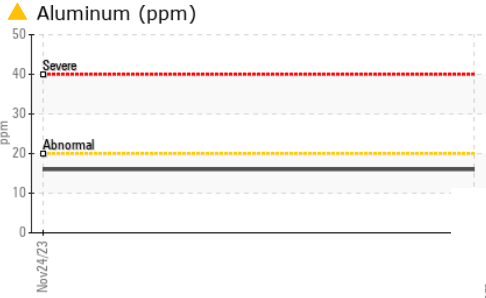
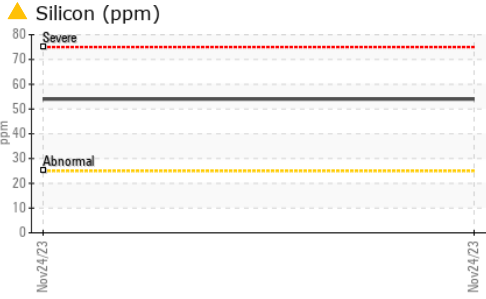
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.8 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 9.6 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.0 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 19.9 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 5.5 | --- | --- |

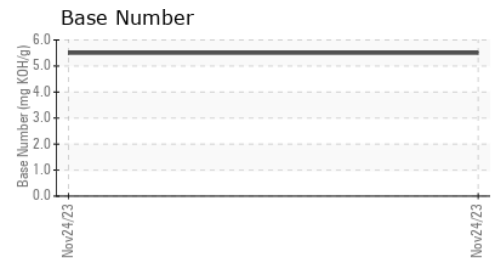
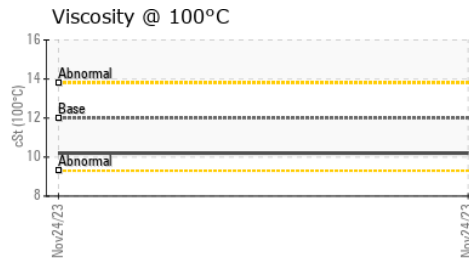
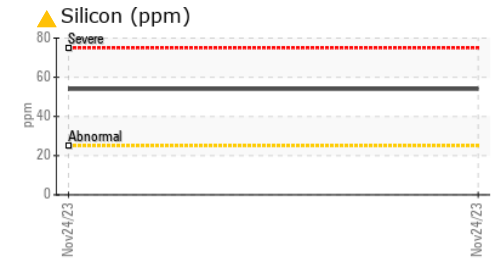
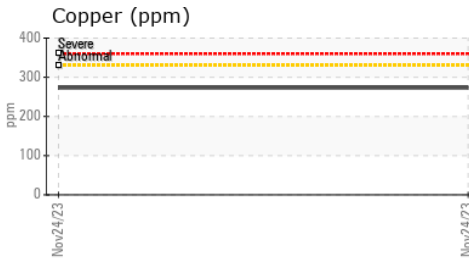
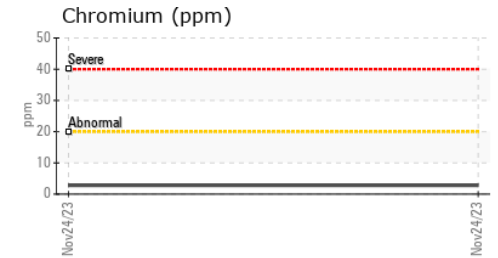
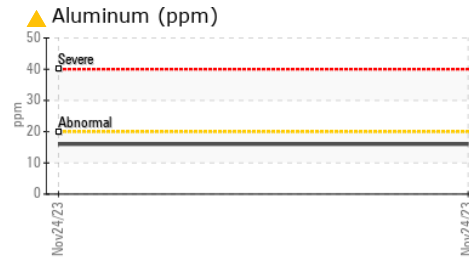
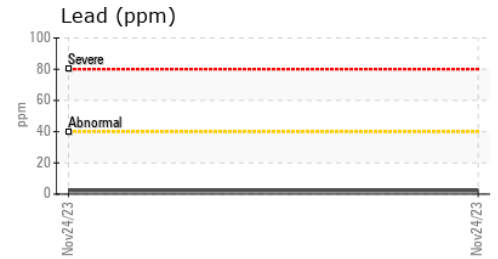
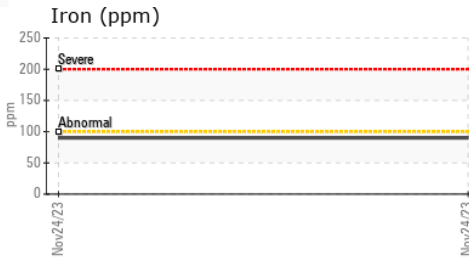
OIL ANALYSIS REPORT



| VISUAL | 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 | 12.00 | 10.2 | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113391 **Recieved** : 13 Dec 2023
Lab Number : 06034046 **Diagnosed** : 18 Dec 2023
Unique Number : 10789275 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #119
 39 INDUSTRIAL AVE
 HASBROUCK HEIGHTS, NJ
 US 07604
 Contact: MIKE LONGETTE
 mlongette@millertransgroup.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: (201)528-7053