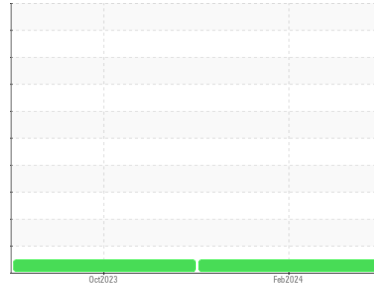


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
649913

 Component
Diesel Engine

 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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. No other contaminants were detected in the oil.

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 | | PCA0116999 | PCA0106275 | --- |
| Sample Date | Client Info | | 05 Feb 2024 | 13 Oct 2023 | --- |
| Machine Age | mls | Client Info | 27224 | 16569 | --- |
| Oil Age | mls | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | Not Changd | --- |
| Sample Status | | | NORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <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 | 53 | 33 | --- |
| Chromium | ppm | ASTM D5185m >20 | 4 | 2 | --- |
| Nickel | ppm | ASTM D5185m >4 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m >20 | 52 | 43 | --- |
| Lead | ppm | ASTM D5185m >40 | 3 | 0 | --- |
| Copper | ppm | ASTM D5185m >330 | 306 | 300 | --- |
| Tin | ppm | ASTM D5185m >15 | 4 | 3 | --- |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | 30 | 33 | --- |
| Barium | ppm | ASTM D5185m 0 | <1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m 50 | 46 | 42 | --- |
| Manganese | ppm | ASTM D5185m 0 | 4 | 4 | --- |
| Magnesium | ppm | ASTM D5185m 950 | 574 | 552 | --- |
| Calcium | ppm | ASTM D5185m 1050 | 1792 | 1587 | --- |
| Phosphorus | ppm | ASTM D5185m 995 | 792 | 783 | --- |
| Zinc | ppm | ASTM D5185m 1180 | 953 | 917 | --- |
| Sulfur | ppm | ASTM D5185m 2600 | 1969 | 2033 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 7 | 7 | --- |
| Sodium | ppm | ASTM D5185m | 10 | 9 | --- |
| Potassium | ppm | ASTM D5185m >20 | 142 | 116 | --- |

INFRA-RED

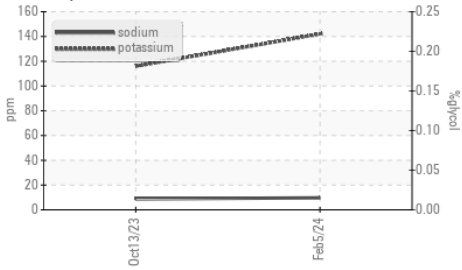
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.6 | 0.4 | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 10.5 | 9.0 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.6 | 22.2 | --- |

FLUID DEGRADATION

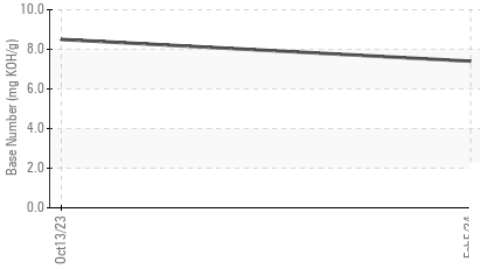
| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 24.7 | 22.1 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 7.4 | 8.5 | --- |

OIL ANALYSIS REPORT

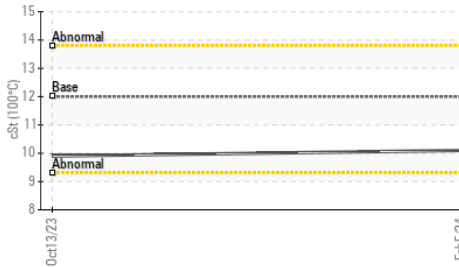
Glycol Contamination



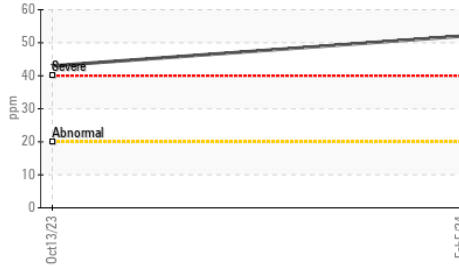
Base Number



Viscosity @ 100°C



Aluminum (ppm)

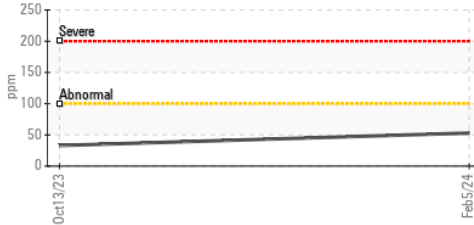


| PARAMETER | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE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

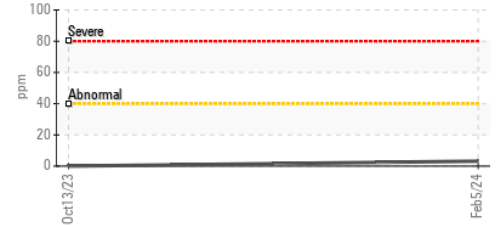
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 10.1 | 9.9 |

GRAPHS

Iron (ppm)



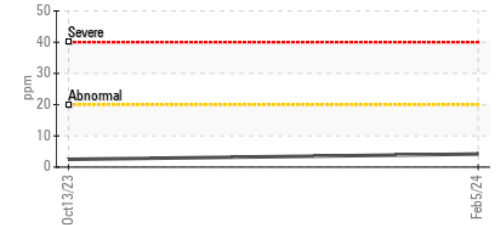
Lead (ppm)



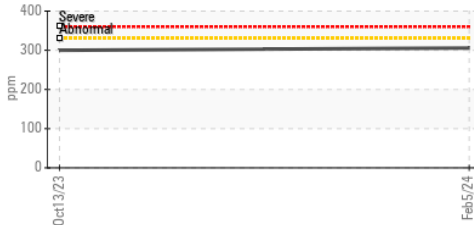
Aluminum (ppm)



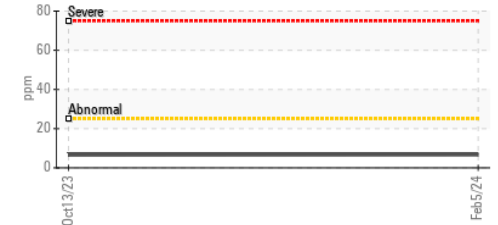
Chromium (ppm)



Copper (ppm)



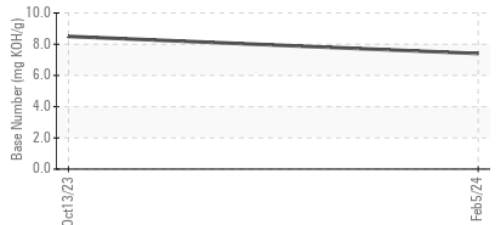
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116999 **Received** : 13 Feb 2024
Lab Number : 06086989 **Tested** : 13 Feb 2024
Unique Number : 10874434 **Diagnosed** : 14 Feb 2024 - 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