

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

G.LOPES CONSTRUCTION INC./On-Road Machine Id PU227

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

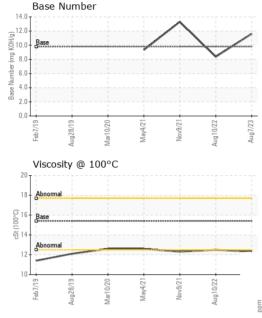
| SIS REPORT | Sample Hatting French | | | | | | | |
|--------------------|-----------------------|---------|---------|---------|---------|---------|---------|-----|
| SIS REPURI | | | | | | | | |
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| | | | | | | | | |
| INC./On-Road | | | | | | | | |
| mion on mode | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| AL) | | | | | | | | |
| n=) | Feb2019 | Aug2019 | Mar2020 | May2021 | Nov2021 | Aug2022 | Aug2023 | |
| SAMPLE INFORMATION | method | | | | | | | his |

| Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT | mls mls | Client Info Client Info Client Info Client Info Client Info Client Info WC Method | limit/base >5 | PCA0098577 07 Aug 2023 144000 134000 N/A NORMAL current <1.0 | PCA0059651 10 Aug 2022 140000 135000 N/A NORMAL history1 <1.0 | PCA0059532 09 Nov 2021 135000 5000 N/A ATTENTION history2 0.1 |
|--|--|--|--|---|--|--|
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron Chromium Nickel Titanium Silver Aluminum | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >80 >5 >2 >3 >30 | 8 1 <1 <1 0 | 12 <1 <1 <1 <1 <1 <1 <1 <1 | 7 <1 <1 <1 0 2 |
| Lead Copper Tin Antimony Vanadium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >30 >150 >5 | 3 4 <1 0 | 2 <1 <1 0 | 2 <1 0 0 0 |
| Cadmium | ррт | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | | | | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 | 0 0 59 2 848 982 946 | 11 <1 62 <1 894 1063 974 | 10 0 57 <1 973 1141 1023 |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 | 0 0 59 2 848 982 | 11 <1 62 <1 894 1063 | 10 0 57 <1 973 1141 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 | 0 0 59 2 848 982 946 1160 | 11 <1 62 <1 894 1063 974 1208 | 10 0 57 <1 973 1141 1023 1206 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 0 60 0 1010 1070 1150 1270 2060 limit/base >20 | 0 0 59 2 848 982 946 1160 3535 | 11 <1 62 <1 894 1063 974 1208 2859 | 10 0 57 <1 973 1141 1023 1206 3845 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145 | 0 0 60 0 1010 1070 1150 1270 2060 limit/base | 0 0 59 2 848 982 946 1160 3535 current 4 | 11 <1 62 <1 894 1063 974 1208 2859 history1 3 <1 | 10 0 57 <1 973 1141 1023 1206 3845 history2 |

Submitted By: MATT MANOLI

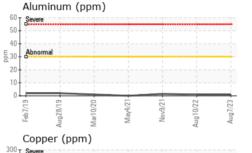


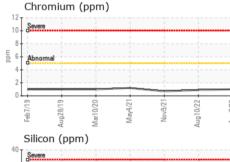
OIL ANALYSIS REPORT

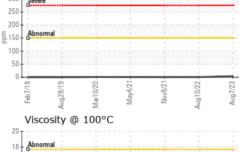


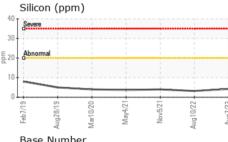
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |

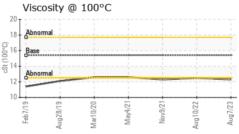
| | Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.3 | 12.5 | <u> </u> | 3 |
|---|--------------|-----|-----------|------|---------------|------|----------|---|
| | GRAPHS | | | | | | | |
| | Iron (ppm) | | | | Lead (ppm) | | | |
| 1 | Severe | | | | Severe | | | |
| | | | | | bU + Q | | | |

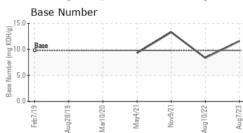














Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : MOB 2

: PCA0098577 : 05920798 : 10592712

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Aug 2023 Diagnosed Diagnostician

: 11 Aug 2023 : Wes Davis

G LOPES CONSTRUCTION 565 WINTHROP ST TAUNTON, MA

US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

T:

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)

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