

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 3714

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.

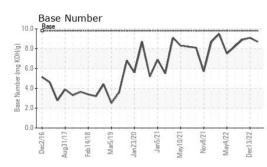
Fluid Condition

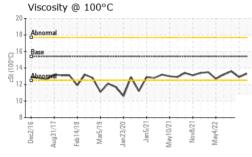
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| AL) | | sc2016 Aug201 | 7 Feb2018 Mar2019 Jan203 | 0 Jan2021 May2021 Nov2021 May2 | 022 Dec2022 | |
|---|---|---|---|---|--|--|
| SAMPLE INFOF | MATION | method | limit/base | current | history1 | history2 |
| Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status | hrs hrs | Client Info Client Info Client Info Client Info Client Info | | GFL0068139 25 Sep 2023 16116 600 Changed NORMAL | GFL0046499 13 Dec 2022 14929 600 Changed NORMAL | GFL0046520 12 Sep 2022 14394 600 Changed NORMAL |
| | | method | limit/base | - | history1 | history2 |
| Fuel Glycol | | WC Method WC Method | >3.0 | <1.0 NEG | <1.0 NEG | <1.0 NEG |
| WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | >4 >2 >2 >15 >25 >100 >4 limit/base 0 0 0 60 | 9 1 <1 4 <1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 | 13 1 <1 (1 0 2 2 (1 (1 0 0 0 history1 10 0 60 (1 909 1182 982 1235 | 10 <1 1 <1 3 <1 1 1 1 0 0 0 <i>history2</i> 11 0 61 <1 902 1099 980 1206 |
| Sulfur | ppm | ASTM D5185m | | 3556 | 3304 | 2875 |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon Sodium Potassium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | | 4 21 12 | 4 5 <1 | 4 4 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % Nitration Sulfation | % Abs/cm Abs/.1mm | *ASTM D7844 *ASTM D7624 *ASTM D7415 | | 0.3 7.3 18.4 | 0.4 8.8 20.6 | 0.5 9.2 20.9 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation Base Number (BN) | Abs/.1mm mg KOH/g | *ASTM D7414 ASTM D2896 | | 14.2 8.7 | 16.0 9.1 | 16.7 8.9 |

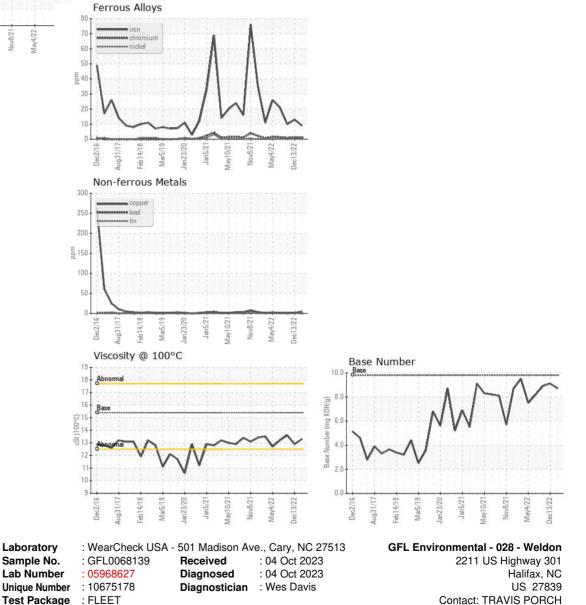


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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | 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 | 13.3 | 12.9 | 13.6 |
| GRAPHS | | | | | | |



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)

Certificate L2367

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