

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id 227111

Component Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low. The condition of the oil is acceptable for the time in service.

| AL) | | | | Feb2024 | | |
|---|----------|---------------------------|------------|-------------|----------|----------|
| SAMPLE INFOR | | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0084797 | | |
| Sample Date | | Client Info | | 26 Feb 2024 | | |
| Vachine Age | hrs | Client Info | | 3314 | | |
| Dil Age | hrs | Client Info | | 0 | | |
| Dil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >100 | 59 | | |
| Chromium | ppm | ASTM D5185m | >20 | 1 | | |
| Nickel | ppm | ASTM D5185m | >4 | <1 | | |
| Fitanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 5 | | |
| _ead | ppm | ASTM D5185m | >40 | <1 | | |
| Copper | ppm | ASTM D5185m | >330 | 12 | | |
| Fin | ppm | ASTM D5185m | >15 | <1 | | |
| /anadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 9 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 48 | | |
| Manganese | ppm | ASTM D5185m | 0 | 1 | | |
| Vagnesium | ppm | ASTM D5185m | 1010 | 901 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1204 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1013 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1198 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 2777 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 8 | | |
| Sodium | ppm | ASTM D5185m | | 3 | | |
| Potassium | ppm | ASTM D5185m | >20 | 7 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 15.5 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 28.7 | | |
| | DATION | method | limit/base | current | history1 | history2 |
| FLUID DEGRA | | | | | | |
| CLUID DEGRAN Oxidation Base Number (BN) | Abs/.1mm | *ASTM D7414 ASTM D2896 | >25 | 33.3 | | |



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method

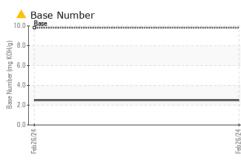
limit/base

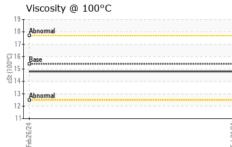
current

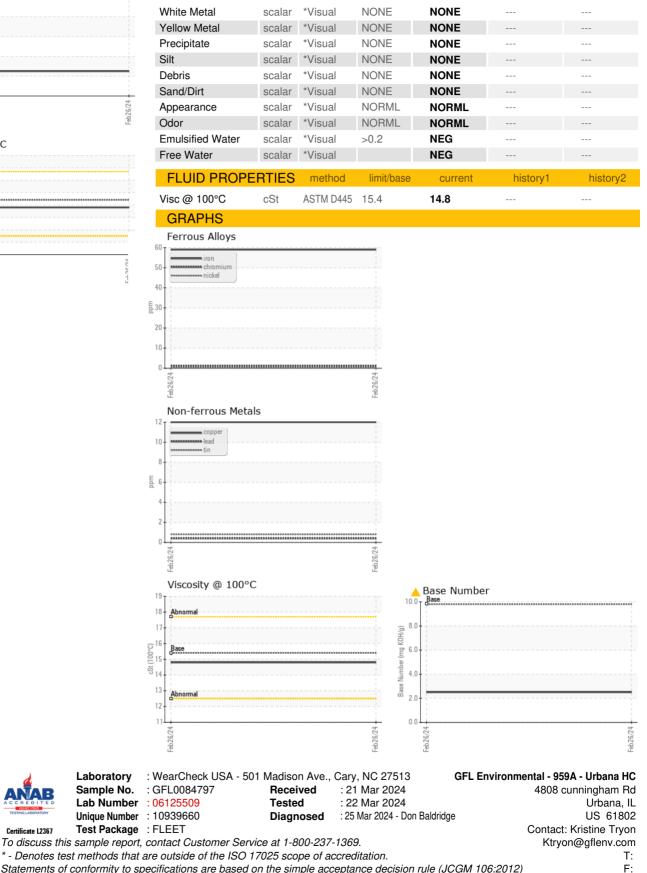
history1

history2

VISUAL







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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