

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 427233

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

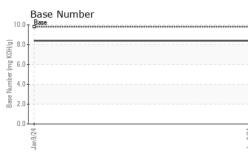
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

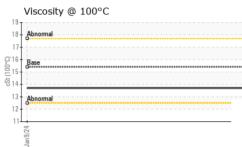
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | GFL0095256 | | |
| Sample Date | | Client Info | | 09 Jan 2024 | | |
| Machine Age | hrs | Client Info | | 14820 | | |
| Oil Age | hrs | Client Info | | 600 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ON | 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 |
| Iron | ppm | ASTM D5185m | >100 | 12 | | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | | |
| Lead | ppm | ASTM D5185m | >40 | <1 | | |
| Copper | ppm | ASTM D5185m | >330 | <1 | | |
| Tin | ppm | ASTM D5185m | >15 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 2 | | |
| Barium | ppm | ASTM D5185m | 0 | 3 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 63 | | |
| Manganese | ppm | ASTM D5185m | 0 | 0 | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 972 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1207 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1025 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1280 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3539 | | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | | >25 | 3 | | |
| Sodium | ppm | ASTM D5185m | | 0 | | |
| Potassium | ppm | ASTM D5185m | - | 3 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | | |
| Nitration | Abs/cm | *ASTM D7624 | | 8.0 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.1 | | |
| FLUID DEGRAD | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.4 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.4 | | |

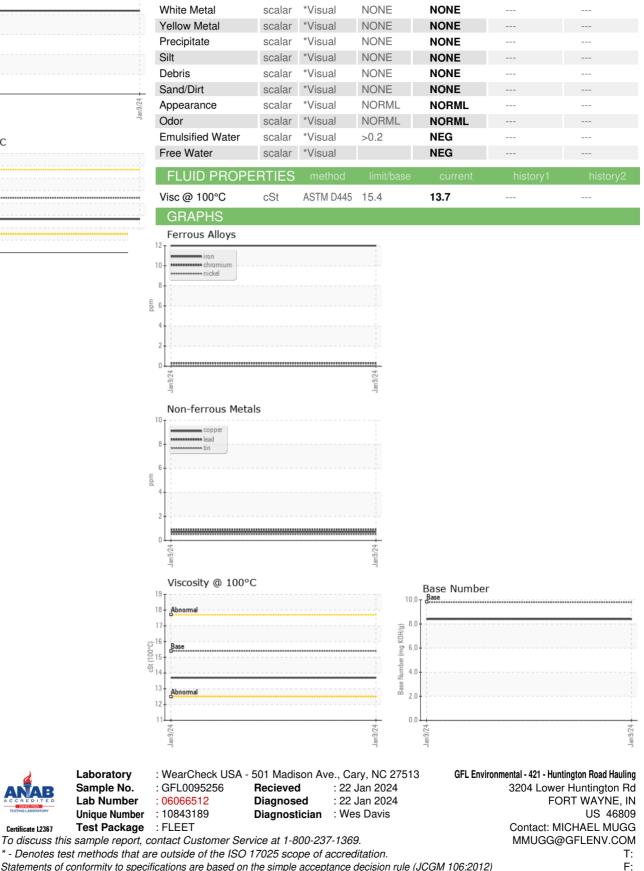


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VISUAL







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

Certificate L2367

Contact/Location: see also GFL421A - MICHAEL MUGG - GFL421