

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





828097 Component **Diesel Engine**

PETRO CANADA DUR

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

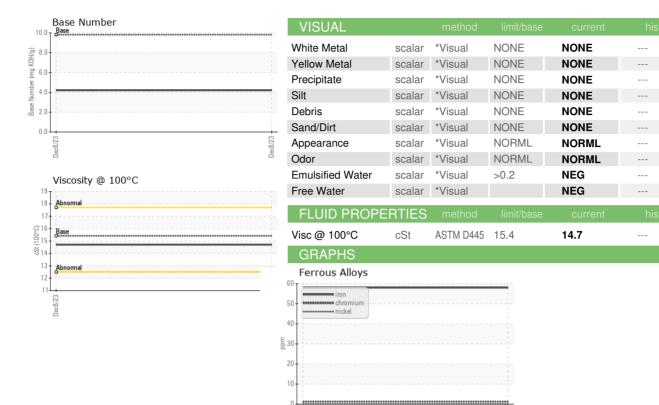
Fluid Condition

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

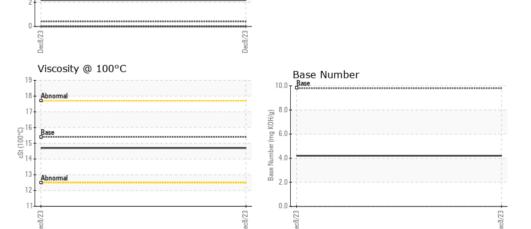
| N SHP 15W40 (- | GAL) | | | Dec2023 | | |
|------------------|----------|-------------|------------|-------------|----------|----------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0093846 | | |
| Sample Date | | Client Info | | 08 Dec 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ΓΙΟΝ | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <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 | >120 | 58 | | |
| Chromium | ppm | ASTM D5185m | >20 | 1 | | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | | |
| Titanium | ppm | ASTM D5185m | >2 | 0 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | >330 | 2 | | |
| Γin | 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 | <1 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 59 | | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 949 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1034 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 951 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1257 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 2508 | | |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | | |
| Sodium | ppm | ASTM D5185m | | 1 | | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 2.6 | | |
| Vitration | Abs/cm | *ASTM D7624 | >20 | 13.5 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 27.1 | | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.4 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 4.2 | | |



OIL ANALYSIS REPORT



Non-ferrous Metals







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: GFL0093846 : 06037517 : 10792746 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 18 Dec 2023 Recieved : 19 Dec 2023

Diagnosed : Wes Davis Diagnostician

GFL Environmental - 952 - New London

E8257 WIS-54 NEW LONDON, WI

T: (414)852-4404

US 54961 Contact: MATTHEW TAYLOR

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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