

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **912024** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (-

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

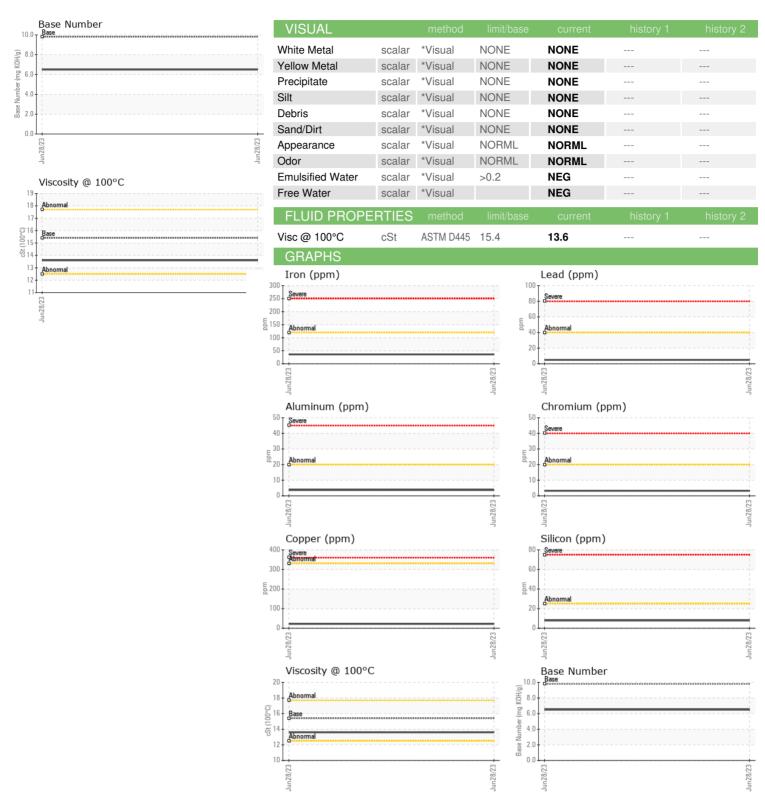
Fluid Condition

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

| ON SHP 15W40 (| - GAL) | | | Jun2023 | | |
|------------------|----------|-------------|------------|-------------|-----------|-----------|
| SAMPLE INFOR | MATION | method | limit/base | current | history 1 | history 2 |
| Sample Number | | Client Info | | GFL0015786 | | |
| Sample Date | | Client Info | | 28 Jun 2023 | | |
| Machine Age | hrs | Client Info | | 2707 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history 1 | history 2 |
| Fuel | | WC Method | >3.0 | <1.0 | | |
| Glycol | | WC Method | 70.0 | NEG | | |
| | | | | | | |
| WEAR METAL | S | method | limit/base | current | history 1 | history 2 |
| Iron | ppm | ASTM D5185m | >120 | 36 | | |
| Chromium | ppm | ASTM D5185m | >20 | 3 | | |
| Nickel | ppm | ASTM D5185m | >5 | 7 | | |
| Titanium | ppm | ASTM D5185m | >2 | 2 | | |
| Silver | ppm | ASTM D5185m | >2 | 2 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | | |
| Lead | ppm | ASTM D5185m | >40 | 5 | | |
| Copper | ppm | ASTM D5185m | >330 | 22 | | |
| Tin | ppm | ASTM D5185m | >15 | 3 | | |
| Vanadium | ppm | ASTM D5185m | | 1 | | |
| Cadmium | ppm | ASTM D5185m | | 2 | | |
| ADDITIVES | | method | limit/base | current | history 1 | history 2 |
| Boron | ppm | ASTM D5185m | 0 | 2 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 60 | | |
| Manganese | ppm | ASTM D5185m | 0 | 3 | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 956 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1143 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 920 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1242 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 2706 | | |
| CONTAMINAN | ITS | method | limit/base | current | history 1 | history 2 |
| Silicon | ppm | ASTM D5185m | >25 | 8 | | |
| Sodium | ppm | ASTM D5185m | | 7 | | |
| Potassium | ppm | ASTM D5185m | >20 | 13 | | |
| INFRA-RED | | method | limit/base | current | history 1 | history 2 |
| Soot % | % | *ASTM D7844 | >4 | 1.2 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.2 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.6 | | |
| FLUID DEGRA | DATION | method | limit/base | current | history 1 | history 2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.4 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 6.5 | | |
| (DIV) | 99 | | | | | |



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Laboratory Sample No. Lab Number

Unique Number

: GFL0015786 : 05888896 : 10539379 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2023 Diagnosed : 05 Jul 2023 : Don Baldridge Diagnostician

GFL Environmental - 463 - Cheboygan

Cheboygan, MI US 49721 Contact: Chris Gee cgee@gflenv.com T: (231)597-8553

501 N. Western Ave

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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