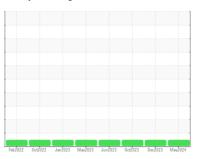


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 125051 Component

Diesel Engine

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

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 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.

| JAL) | | | | | | |
|---|----------|---------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0117272 | GFL0099537 | GFL0091575 |
| Sample Date | | Client Info | | 01 May 2024 | 21 Dec 2023 | 11 Oct 2023 |
| Machine Age | hrs | Client Info | | 454911 | 445304 | 17900 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| WEAR METALS method limit/base current history1 history2 | | | | | | |
| Iron | ppm | ASTM D5185(m) | >100 | 26 | 12 | 32 |
| Chromium | ppm | ASTM D5185(m) | >20 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >330 | 12 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 0 | 3 | 2 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 64 | 56 | 61 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 966 | 927 | 999 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1065 | 1090 | 1106 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 961 | 982 | 963 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1187 | 1157 | 1236 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2302 | 2584 | 2235 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 3 | 5 |
| Sodium | ppm | ASTM D5185(m) | | 150 | 2 | 5 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 2 | <1 |
| Glycol | % | ASTM D7922* | | 0.0 | NEG | NEG |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >3 | 0.2 | 0.2 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.4 | 6.1 | 8.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.2 | 19.1 | 20.0 |



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02633853 Unique Number : 5775006

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0117272

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: Glycol)

: 07 May 2024 : 07 May 2024

: 07 May 2024 - Wes Davis

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com T:

F: (403)369-6163

Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: GFL Calgary