

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL

Machine Id 819011 ponen

Diesel Engine

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

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|--------------------|----------|--------------------------------|-----------|-------------|-------------|----------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | GFL0112444 | GFL0084343 | |
| | Sample Date | | Client Info | | 15 Jun 2024 | 02 Sep 2023 | |
| | Machine Age | hrs | Client Info | | 145446 | 122385 | |
| | Oil Age | hrs | Client Info | | 0 | 0 | |
| | Filter Age | hrs | Client Info | | 0 | 0 | |
| | Oil Changed | | Client Info | | Changed | N/A | |
| | Filter Changed | | Client Info | | Changed | N/A | |
| | Sample Status | | | | NORMAL | NORMAL | |
| WEAR | | | | . 00 | 46 | 10 | |
| WEAN | Iron | ppm | ASTM D5185(m) | | 46 | 13 | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185(m) | | 1 | <1 | |
| | Nickel | ppm | ASTM D5185(m) | >2 | <1 | 0 | |
| | Titanium Silver | ppm | ASTM D5185(m) | 2 | 0 | 0 | |
| | | ppm | ASTM D5185(m) ASTM D5185(m) | | <1 | | |
| | Aluminum Lead | ppm | | | 4 0 | 2 0 | |
| | | ppm | ASTM D5185(m) ASTM D5185(m) | | | | |
| | Copper Tin | ppm | | | 5 | 1 0 | |
| | | ppm | ASTM D5185(m) | >0 | 0 | 0 | |
| | Vanadium | ppm | ASTM D5185(m) | | | 0 | |
| CONTAMINATION | Silicon | ppm | ASTM D5185(m) | >20 | 8 | 4 | |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185(m) | >20 | 4 | 1 | |
| | Fuel | | WC Method | >5 | <1.0 | <1.0 | |
| | Water | | WC Method | >0.2 | NEG | NEG | |
| | Glycol | | WC Method | | NEG | NEG | |
| | Soot % | % | ASTM D7844* | >3 | 0.8 | 0.4 | |
| | Nitration | Abs/cm | ASTM D7624* | >20 | 10.5 | 6.8 | |
| | Sulfation | Abs/.1mm | ASTM D7415* | >30 | 23.2 | 19.6 | |
| | Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185(m) | | 3 | 4 | |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Boron | ppm | ASTM D5185(m) | 0 | 3 | 3 | |
| | Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | |
| | Molybdenum | ppm | ASTM D5185(m) | 60 | 61 | 58 | |
| | Manganese | ppm | ASTM D5185(m) | 0 | <1 | <1 | |
| | Magnesium | ppm | ASTM D5185(m) | 1010 | 954 | 960 | |
| | Calcium | ppm | ASTM D5185(m) | 1070 | 1064 | 1056 | |
| | Phosphorus | ppm | ASTM D5185(m) | 1150 | 935 | 1055 | |
| | Zinc | ppm | ASTM D5185(m) | 1270 | 1173 | 1180 | |
| | Sulfur | ppm | ASTM D5185(m) | 2060 | 2317 | 2570 | |
| | Oxidation | Abs/.1mm | ASTM D7414* | >25 | 21.0 | 15.4 | |
| | Base Number (BN) | mg KOH/g | ASTM D2896* | 9.8 | 8.33 | 9.02 | |
| | | - | | | | | |

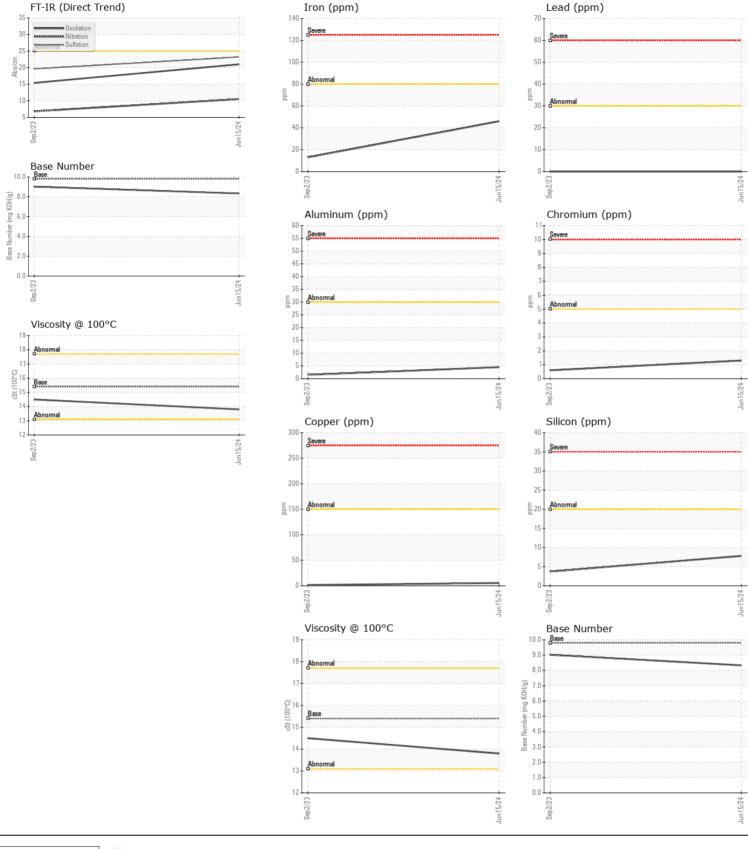
Visc @ 100°C cSt

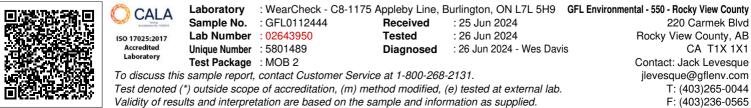
ASTM D7279(m) 15.4

Contact/Location: Jack Levesque - GFL550

14.5

13.8





Contact/Location: Jack Levesque - GFL550 Page 2 of 2