

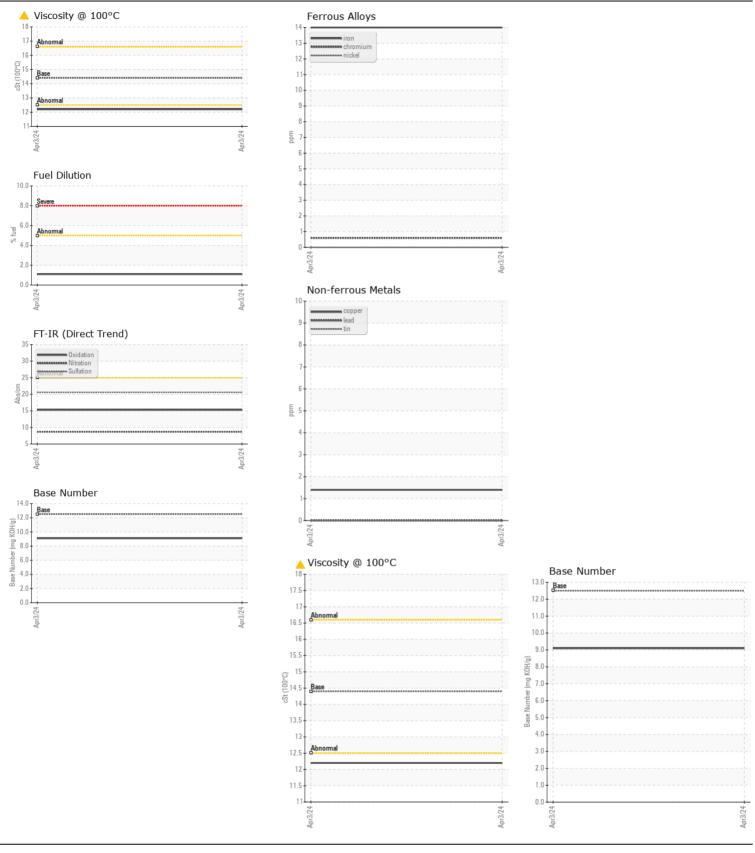
Machine Id **12249 REEFER** Component **Diesel Engine** Fluid **CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

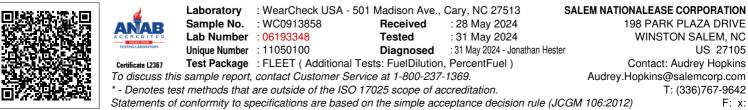
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|-------------------|------------------|------------------------|-------------|--------------|----------|----------|
| No corrective action is recommended at this time. Resample at the next service interval to monitor. | Sample Number | | Client Info | | WC0913858 | | |
| | Sample Date | | Client Info | | 03 Apr 2024 | | |
| | Machine Age | hrs | Client Info | | 1224 | | |
| | Oil Age | hrs | Client Info | | 1224 | | |
| | Filter Age | hrs | Client Info | | 1224 | | |
| | Oil Changed | | Client Info | | N/A | | |
| | Filter Changed | | Client Info | | N/A | | |
| | Sample Status | | | | MARGINAL | | |
| WEAR All component wear rates are normal. | Iron | ppm | ASTM D5185m | >100 | 14 | | |
| | Chromium | ppm | ASTM D5185m | | <1 | | |
| | Nickel | ppm | ASTM D5185m | | 0 | | |
| | Titanium | ppm | ASTM D5185m | | 0 | | |
| | Silver | ppm | ASTM D5185m | >3 | - <1 | | |
| | Aluminum | ppm | ASTM D5185m | | 2 | | |
| | Lead | ppm | ASTM D5185m | | 0 | | |
| | Copper | ppm | ASTM D5185m | | 1 | | |
| | Tin | ppm | ASTM D5185m | >15 | 0 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | | 4 | | |
| Fuel content negligible. There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | | 0 | | |
| | Fuel | % | ASTM D3524 | | 1.1 | | |
| | Water | | WC Method | >0.2 | NEG | | |
| | Glycol | 0/ | WC Method | 0 | NEG | | |
| | Soot % | % | *ASTM D7844 | | 1.1 | | |
| | Nitration | Abs/cm | *ASTM D7624 | | 8.7 | | |
| | Sulfation Silt | Abs/.1mm | *ASTM D7415 *Visual | >30 NONE | 20.6 NONE | | |
| | Debris | scalar scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance | scalar | *Visual | NORML | NORML | | |
| | Odor | scalar | *Visual | NORML | NORML | | |
| | Emulsified Water | | *Visual | >0.2 | NEG | | |
| FLUID CONDITION The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. | | | | | | | |
| | Sodium | ppm | ASTM D5185m | | 0 | | |
| | Boron | ppm | ASTM D5185m | 151 | 7 | | |
| | Barium | ppm | ASTM D5185m | | 0 | | |
| | Molybdenum | ppm | ASTM D5185m | 250 | 68 | | |
| | Manganese | ppm | ASTM D5185m | | <1 | | |
| | Magnesium | ppm | ASTM D5185m | | 1008 | | |
| | Calcium | ppm | ASTM D5185m | | 1290 | | |
| | Phosphorus | ppm | ASTM D5185m | | 1112 | | |
| | Zinc | ppm | ASTM D5185m | | 1398 | | |
| | Sulfur | ppm | ASTM D5185m | | 3916 | | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | | 15.3 | | |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | 12.5 | 9.1 | | |

Visc @ 100°C cSt

ASTM D445 14.4

12.2





Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2