

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

Machine Id TENNES

TENNESSEE MERCHANT (S/N 85201420)

Port Genset

CHEVRON DELO 400 MULTIGRADE 15W40 (7 GAL)

| | | | ··/ | | | | |
|--|------------------|----------|--------------|-----------|--------------|--------------|-------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. | Sample Number | | Client Info | | MW0044718 | MW0044881 | MWM731253 |
| | Sample Date | | Client Info | | 01 Jul 2024 | 25 Apr 2024 | 02 Dec 2023 |
| | Machine Age | hrs | Client Info | | 4281 | 3760 | 3348 |
| | Oil Age | hrs | Client Info | | 503 | 497 | 363 |
| | Filter Age | hrs | Client Info | | 503 | 497 | 0 |
| | Oil Changed | 1110 | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | Oliciti IIIO | | SEVERE | ABNORMAL | 0 |
| | | | | | | | |
| WEAR | Iron | ppm | ASTM D5185m | >50 | 14 | 11 | 7 |
| | Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | 10 | 10 | 0 |
| | Silver | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 2 | 2 | 2 |
| | Lead | ppm | ASTM D5185m | | - <1 | <1 | 0 |
| | Copper | ppm | ASTM D5185m | | <1 | 1 | <1 |
| | Tin | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 15 | 7 | 6 |
| There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. | Potassium | ppm | ASTM D5185m | >20 | 4 | 5 | <1 |
| | Fuel | % | ASTM D3524 | >4.0 | A 8.5 | 1 7.9 | <1.0 |
| | Water | | WC Method | >0.1 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | | 0.2 | 0.2 | 0.1 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 12.3 | 11.1 | 10.7 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.2 | 20.3 | 20.3 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| | | | | | | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 3 | 3 | 28 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants. | Boron | ppm | ASTM D5185m | | 55 | 78 | 1 |
| | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | 250 | 45 | 50 | 56 |
| | Manganese | ppm | ASTM D5185m | 0 | 0 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 695 | 635 | 915 |
| | Calcium | ppm | ASTM D5185m | | 1428 | 1351 | 1077 |
| | Phosphorus | ppm | ASTM D5185m | | 683 | 729 | 1021 |
| | Zinc | ppm | ASTM D5185m | 943 | 831 | 772 | 1233 |
| | Sulfur | ppm | ASTM D5185m | | 3405 | 3024 | 2990 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.2 | 18.4 | 19.3 |

Base Number (BN) mg KOH/g ASTM D2896 12.5

Visc @ 100°C cSt

ASTM D445 14.4

6.7

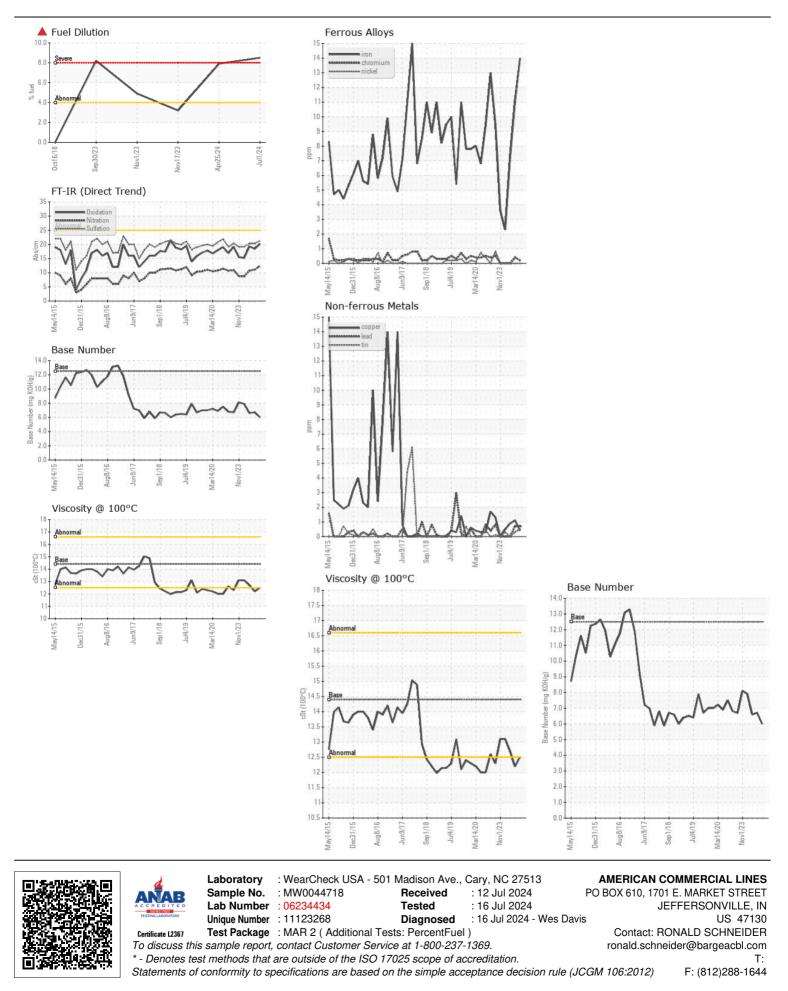
12.2

6.6

12.7

6.0

12.5



Contact/Location: RONALD SCHNEIDER - AMELOU Page 2 of 2