

OIL ANALYSIS REPORT

Machine Id FREIGHTLINER 2018 Component Diesel Engine Fluid TRC MOLY PRO-SPEC IV XP 15W40 (10 GAL)

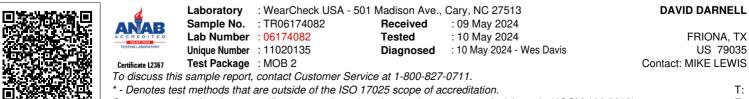
| RECOMMENDATION Resample at the next service interval to monitor. | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|-------------------------|-----------------|----------------------------|-----------|----------------|----------|----------|
| | Sample Number | | Client Info | | TR06174082 | | |
| | Sample Date | mala | Client Info | | 04 May 2024 | | |
| | Machine Age | mls | Client Info | | 1016747 | | |
| | Oil Age | mls | Client Info Client Info | | 14200 14200 | | |
| | Filter Age | mls | | | | | |
| | Oil Changed | | Client Info | | Changed | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | | | NORMAL | | |
| WEAR All component wear rates are normal. | Iron | ppm | ASTM D5185m | >200 | 7 | | |
| | Chromium | ppm | ASTM D5185m | >6 | <1 | | |
| | Nickel | ppm | ASTM D5185m | | 1 | | |
| | Titanium | ppm | ASTM D5185m | >2 | <1 | | |
| | Silver | ppm | ASTM D5185m | | 0 | | |
| | Aluminum | ppm | ASTM D5185m | >50 | 3 | | |
| | Lead | ppm | ASTM D5185m | | <1 | | |
| | Copper | ppm | ASTM D5185m | | 7 | | |
| | Tin | ppm | ASTM D5185m | | 1 | | |
| | Vanadium | ppm | ASTM D5185m | | <1 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >50 | 6 | | |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | >20 | 3 | | |
| | Fuel | | WC Method | >3.0 | <1.0 | | |
| | Water | | WC Method | >0.2 | NEG | | |
| | Glycol | | WC Method | | NEG | | |
| | Soot % | % | *ASTM D7844 | >3 | 0.6 | | |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 8.2 | | |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 19.3 | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance | scalar | *Visual | NORML | NORML | | |
| | Odor | scalar | *Visual | NORML | NORML | | |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | | |
| FLUID CONDITION | Sodium | 000 | ASTM D5185m | | 0 | | |
| | Sodium | ppm | ASTM D5185m ASTM D5185m | | 0 | | |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Boron Barium | ppm | ASTM D5185m | | 44 0 | | |
| | | ppm | ASTM D5185m | | 84 | | |
| | Molybdenum Manganese | ppm ppm | ASTM D5185m | | -04 <1 | | |
| | Magnesium | | ASTM D5185m | | <1 524 | | |
| | Calcium | ppm | ASTM D5185m | | 524 1375 | | |
| | Phosphorus | ppm | ASTM D5185m | | 728 | | |
| | Zinc | ppm | ASTM D5185m | | 838 | | |
| | Sulfur | ppm | ASTM D5185m | | 2931 | | |
| | Oxidation | ppm Abs/.1mm | *ASTM D5185111 | >25 | 16.3 | | |
| | Base Number (BN) | | | 220 | 8.68 | | |
| | | | ASTIVI D2090 | | 0.00 | | |

Visc @ 100°C cSt

ASTM D445

16.1





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Contact/Location: MIKE LEWIS - DAVFRI Page 2 of 2