



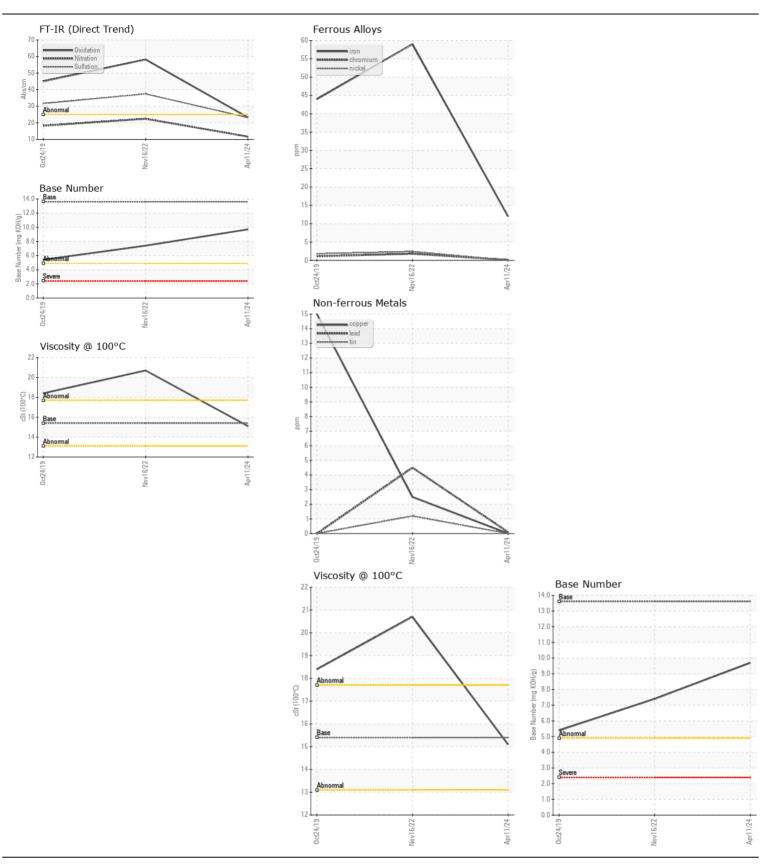
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Store 9 - Marietta [RO#149836]

L06210V230345

Diesel Engine

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History | History2 |
|---|------------------------------|----------------------|----------------------------|-------------|-------------|------------------------|------------|
| RECOMMENDATION | | UOIVI | | LIMII/ADN | LEC0048890 | History1 LEC0034806 | LEC000690 |
| Resample at the next service interval to monitor. | Sample Number Sample Date | | Client Info | | 11 Apr 2024 | 16 Nov 2022 | 24 Oct 201 |
| | Machine Age | hrs | Client Info | | 2226 | 2061 | 0 |
| | Oil Age | | Client Info | | 165 | 408 | 0 |
| | Filter Age | hrs hrs | Client Info | | 165 | 408 | 0 |
| | Oil Changed | 1115 | Client Info | | | | |
| | | | | | Changed | Changed Changed | Changed |
| | Filter Changed | | Client Info | | Changed | 0 | Changed |
| | Sample Status | | | | NORMAL | ABNORMAL | ABNORMA |
| VEAR | Iron | ppm | ASTM D5185m | >51 | 12 | △ 59 | 44 |
| | Chromium | ppm | ASTM D5185m | >11 | <1 | 2 | 1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 0 | 2 | 2 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 5 | 4 | 2 |
| | Lead | ppm | ASTM D5185m | | <1 | 4 | 0 |
| | Copper | ppm | ASTM D5185m | | 0 | 2 | 15 |
| | Tin | ppm | ASTM D5185m | | 0 | 1 | 0 |
| | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >!20 | 6 | 6 | 4 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 11 |
| | Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | >0.21 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.2 | 0.1 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 11.6 | 22.4 | 18.2 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.1 | 37.4 | 31.6 |
| | 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 | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORN |
| | Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| LUID CONDITION | Sodium | nnm | ACTM DE105m | √ 21 | 1 | 2 | 5 |
| LUID CONDITION | Boron | ppm | ASTM D5185m ASTM D5185m | >51 | 274 | 168 | 119 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | <1 <1 | 0 | 0 |
| | | ppm | | | | | |
| | Molybdenum | ppm | ASTM D5185m | | 256 | 225 | 30 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | 2 |
| | Magnesium | ppm | ASTM D5185m | | 883 1502 | 724 | 88 |
| | Calcium | ppm | ASTM D5185m | | 1503 | 1591 | 2211 |
| | Phosphorus | ppm | ASTM D5185m | | 991 | 843 | 911 |
| | Zinc | ppm | ASTM D5185m | | 1158 | 1124 | 1148 |
| | Sulfur | ppm | ASTM D5185m | 05 | 3737 | 3435 | 2876 |
| | Oxidation Base Number (BN) | Abs/.1mm mg KOH/g | *ASTM D7414 ASTM D2896 | | 23.2 9.7 | 58.2 7.4 | 45 5.4 |
| | | | | 136 | | | 5.4 |







Laboratory

Sample No.

Lab Number : 06149261

Unique Number: 10979339

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0048890

Received **Tested** Diagnosed

: 16 Apr 2024 : 16 Apr 2024 - Wes Davis

: 15 Apr 2024

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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