WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

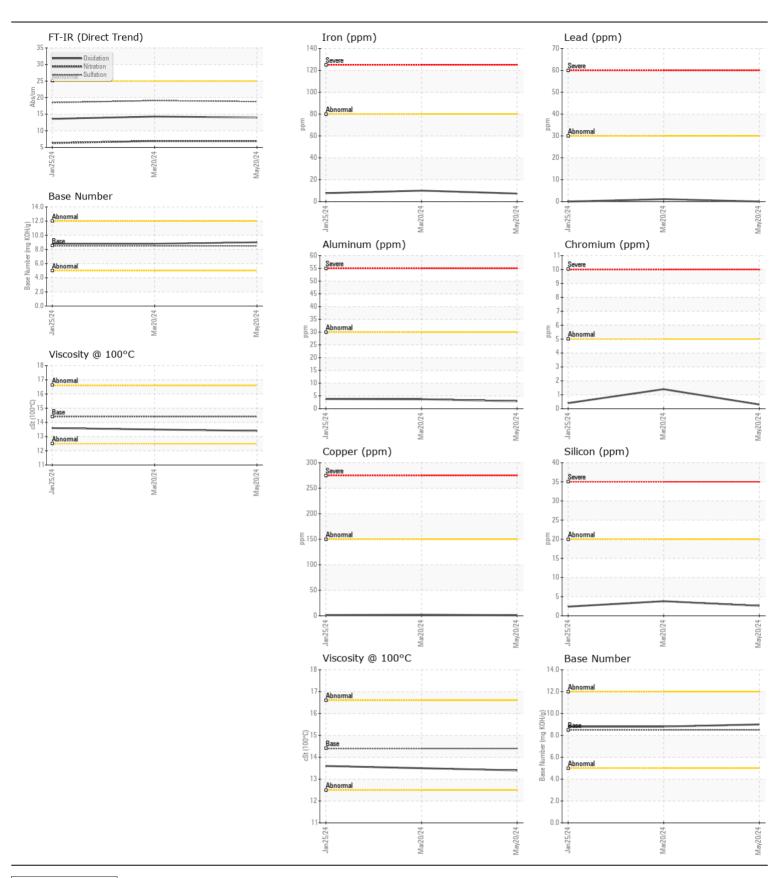
Machine Id

FREIGHTLINER 2133

Component

Diesel Engine

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|----------------------|-----------------|----------------------------|------------|-------------|-------------|------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | WC0917054 | WC0917320 | WC089387 |
| | Sample Date | | Client Info | | 20 May 2024 | 20 Mar 2024 | 25 Jan 202 |
| | Machine Age | mls | Client Info | | 145115 | 136029 | 126329 |
| | Oil Age | mls | Client Info | | 0 | 0 | 0 |
| | Filter Age | mls | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| VEAR | Iron | ppm | ASTM D5185m | >80 | 7 | 10 | 8 |
| | Chromium | ppm | ASTM D5185m | | <1 | 1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 0 | 1 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 3 | 4 | 4 |
| | Lead | ppm | ASTM D5185m | | 0 | 1 | 0 |
| | Copper | ppm | ASTM D5185m | | 1 | 2 | 1 |
| | Tin | ppm | ASTM D5185m | >5 | 0 | 1 | 0 |
| | Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >20 | 3 | 4 | 2 |
| CONTAMINATION | Potassium | ppm | ASTM D5185m | | 6 | 8 | 6 |
| There is no indication of any contamination in the oil. | Fuel | ррпп | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 70.L | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | \ 3 | 0.4 | 0.5 | 0.4 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 6.9 | 6.9 | 6.3 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 18.8 | 19.1 | 18.5 |
| | 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 | NORN |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Emulsified Water | | *Visual | >0.2 | NEG | NEG | NEG |
| LUID CONDITION | Codium | | ACTM DE10Em | . 150 | | .4 | .4 |
| LUID CONDITION | Sodium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| 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 D5185m | | 4 | 0 | 2 |
| | Barium | ppm | ASTM D5185m | - | 0 | 0 57 | 0 |
| | Molybdenum | ppm | ASTM D5185m ASTM D5185m | 100 | 60 | 57 1 | 59 |
| | Manganese | ppm | | 150 | 0 905 | | <1 949 |
| | Magnesium Calcium | ppm | ASTM D5185m | | | 911 | |
| | | ppm | ASTM D5185m | | 1065 | 1056 | 1031 |
| | Phosphorus | ppm | ASTM D5185m | | 1042 | 963 | 1066 |
| | Zinc | ppm | ASTM D5185m | | 1214 | 1200 | 1241 |
| | Sulfur | ppm Abo/ 1mm | *ASTM D5185m | | 2826 | 3280 | 2992 |
| | Oxidation | Abs/.1mm | 491M D/414 | | 14.0 | 14.3 | 13.6 |
| | Base Number (BN) | ma KOII/- | ACTM DOOGG | 0.5 | 9.0 | 8.8 | 8.8 |





Laboratory Sample No.

: WC0917054 Lab Number : 06214250 Unique Number : 11087114

Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested** Diagnosed

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

CONCRETE SERVICE CO - FAY BLOCK 161 BUILDERS BLVD FAYETTEVILLE, NC

US 28301 Contact: BRYAN VANNIMAN

bryanvanniman@fayblock.com T: (800)326-9198

* - 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)