

WEAR CONTAMINATION FLUID CONDITION

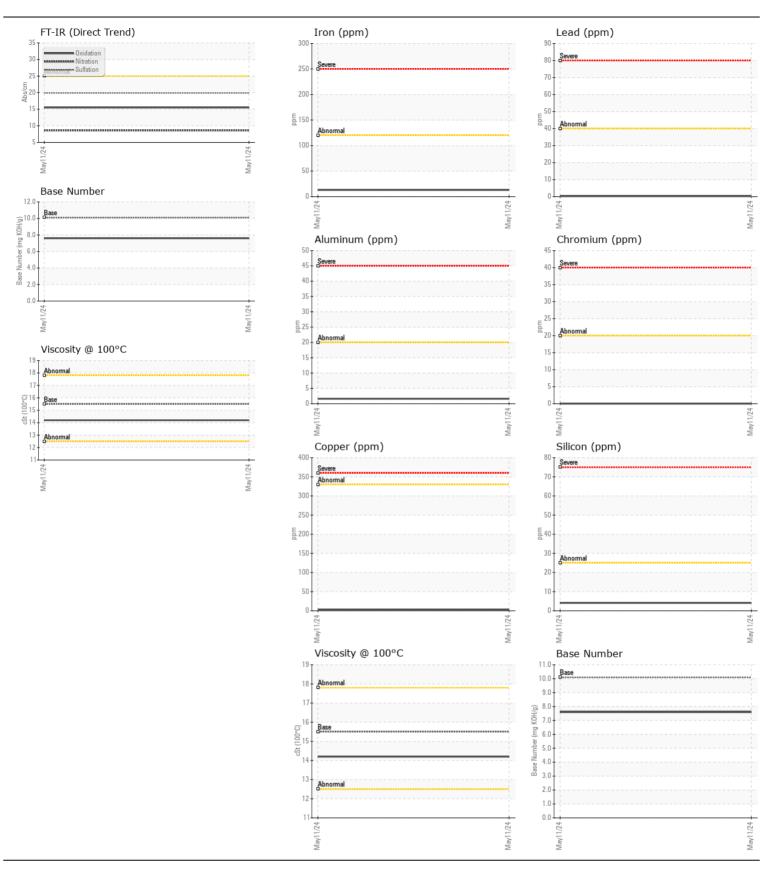
NORMAL NORMAL



Machine Id
MACK FL-48
Component
Diesel Engine

GIBRALTAR 15W/40 SUPER S-3 LX (--- GAL)

| DECOMMENDATION | Toot | LICA | Motherd | Limit/Ala- | Cummanat | Lliotomid | Lliate |
|---|------------------------------|------------|---------------|---------------|----------------------|-----------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current WC0875385 | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number Sample Date | | Client Info | | 11 May 2024 | | |
| | | hre | Client Info | | 8895 | | |
| | Machine Age Oil Age | hrs hrs | Client Info | | 600 | | |
| | Filter Age | hrs | Client Info | | 600 | | |
| | Oil Changed | 1115 | Client Info | | Changed | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | Oliciti IIIIo | | NORMAL | | |
| | | | | | ····· | | |
| WEAR | Iron | ppm | ASTM D5185m | >120 | 13 | | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >20 | 0 | | |
| | Nickel | ppm | ASTM D5185m | >5 | 0 | | |
| | Titanium | ppm | ASTM D5185m | >2 | 0 | | |
| | Silver | ppm | ASTM D5185m | >2 | 0 | | |
| | Aluminum | ppm | ASTM D5185m | >20 | 2 | | |
| | Lead | ppm | ASTM D5185m | | <1 | | |
| | Copper | ppm | ASTM D5185m | | 2 | | |
| | Tin | ppm | ASTM D5185m | >15 | <1 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 4 | | |
| CONTAININATION | Potassium | ppm | ASTM D5185m | | 0 | | |
| There is no indication of any contamination in the oil. | Fuel | ррпп | WC Method | >3.0 | <1.0 | | |
| | Water | | WC Method | | NEG | | |
| | Glycol | | WC Method | 70.L | NEG | | |
| | Soot % | % | *ASTM D7844 | >4 | 0.5 | | |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 8.6 | | |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 19.9 | | |
| | 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 | ppm | ASTM D5185m | | 2 | | |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Boron | | ASTM D5185m | | 7 | | |
| | Barium | ppm | ASTM D5185m | | 0 | | |
| | Molybdenum | ppm | ASTM D5185m | 66 | 61 | | |
| | Manganese | ppm | ASTM D5185m | | <1 | | |
| | Magnesium | ppm | ASTM D5185m | 1000 | 885 | | |
| | Calcium | ppm | ASTM D5185m | | 1120 | | |
| | Phosphorus | ppm | ASTM D5185m | 1150 | 1028 | | |
| | Zinc | ppm | ASTM D5185m | 1270 | 1246 | | |
| | Sulfur | ppm | ASTM D5185m | | 3316 | | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.5 | | |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | 10.1 | 7.6 | | |
| | Visc @ 100°C | cSt | ASTM D445 | 15.5 | 14.2 | | |
| | | | | | | | |





Certificate L2367

Report Id: OAKDANCT [WUSCAR] 06188915 (Generated: 05/24/2024 15:30:35) Rev: 1

Laboratory Sample No.

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

: WC0875385 Lab Number : 06188915 Unique Number : 11045667

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Received

Tested

: 23 May 2024 : 24 May 2024

: 24 May 2024 - Wes Davis

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) **OAKRIDGE WASTE**

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