WEAR CONTAMINATION FLUID CONDITION

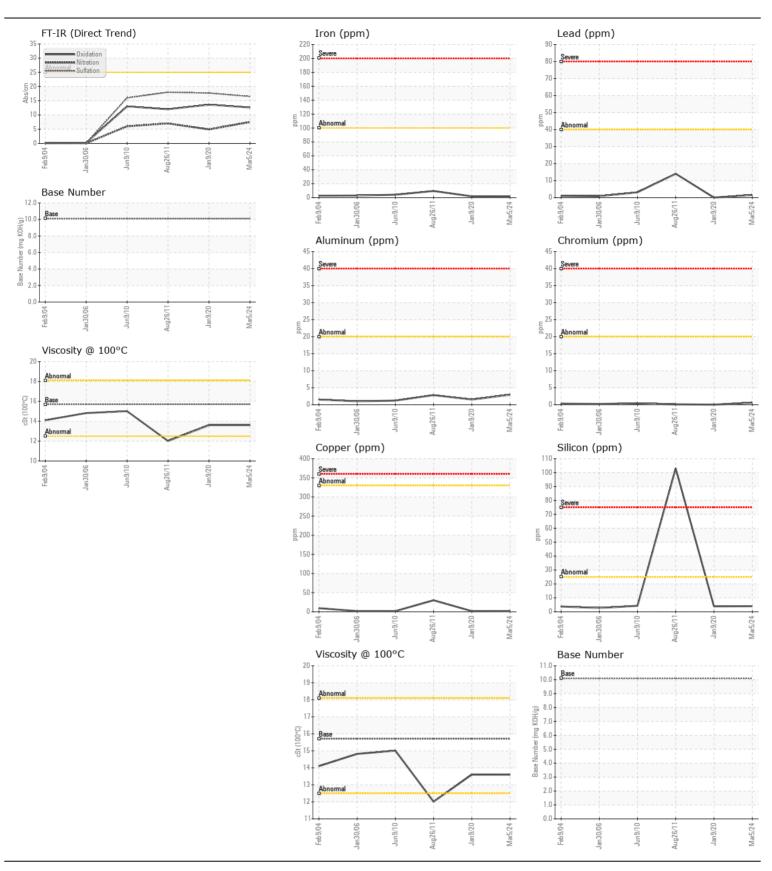
NORMAL NORMAL NORMAL

Machine Id

WASTE TREATMENT TOWN OF PITTSBORO WT

Diesel Engine

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|-------------------------|----------|-------------|-----------|-------------|-------------|-------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | WC0887910 | WC0395610 | WCM116921 |
| | Sample Date | | Client Info | | 05 Mar 2024 | 09 Jan 2020 | 26 Aug 201 |
| | Machine Age | hrs | Client Info | | 363 | 218 | 0 |
| | Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | ABNORMA |
| VEAR | Iron | ppm | ASTM D5185m | >100 | 2 | 2 | 9 |
| | Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Metal levels are typical for a new component breaking in. | Nickel | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 3 | 2 | 3 |
| | Lead | ppm | ASTM D5185m | | 2 | 0 | 14 |
| | Copper | ppm | ASTM D5185m | | 2 | 2 | 30 |
| | Tin | ppm | ASTM D5185m | | 1 | 0 | 4 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 4 | 4 | <u></u> 103 |
| | Potassium | ppm | ASTM D5185m | | 5 | 6 | 2 |
| There is no indication of any contamination in the oil. | Fuel | 1-1- | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0 | 0 | 0 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 7.5 | 4.9 | 7. |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 16.5 | 17.7 | 18. |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 1 | 3 | 4 |
| | Boron | ppm | ASTM D5185m | 316 | 90 | 9 | 99 |
| 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 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 87 | 61 | 125 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| | Magnesium | ppm | ASTM D5185m | 24 | 27 | 1060 | 283 |
| | Calcium | ppm | ASTM D5185m | | 2116 | 1179 | 1672 |
| | Phosphorus | ppm | ASTM D5185m | | 1111 | 1070 | 841 |
| | Zinc | ppm | ASTM D5185m | | 1110 | 1214 | 1045 |
| | Sulfur | ppm | ASTM D5185m | | 4090 | 2772 | 4089 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | | 12.6 | 13.6 | 12. |
| | Base Number (BN) | | ASTM D2896 | | 7.0 | | |
| | | 0 | | | | | |





Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0887910 Lab Number : 06146940

Received **Tested** Unique Number: 10977018

: 12 Apr 2024 Diagnosed

: 15 Apr 2024 : 15 Apr 2024 - Wes Davis PIEDMONT GENERATOR 7560 NC HWY 22 NORTH

CLIMAX, NC US 27233 Contact: TERRY SHEPPARD

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 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.

terry1pg@bellsouth.net; bill3pg@bellsouth.net T: (336)685-4859

Contact/Location: TERRY SHEPPARD - PIEJUL

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (336)685-5297