OIL ANALYSIS REPORT

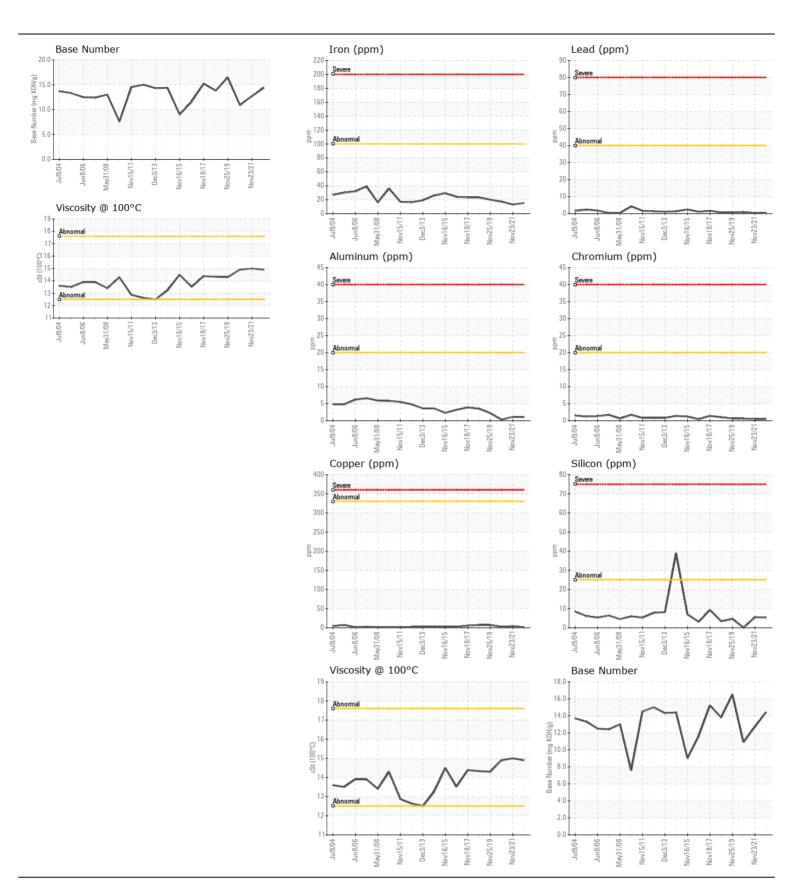
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id CASE IH 255

Diesel Engine

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|--------------------|----------|----------------------------|-----------|--------------|-------------|------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | TR05773046 | TR05441597 | TR0513249 |
| | Sample Date | | Client Info | | 04 Nov 2022 | 23 Nov 2021 | 07 Nov 202 |
| | Machine Age | hrs | Client Info | | 5583 | 5282 | 5003 |
| | Oil Age | hrs | Client Info | | 301 | 279 | 326 |
| | Filter Age | hrs | Client Info | | 301 | 279 | 326 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR | | | ASTM D5185m | . 100 | 45 | 13 | 17 |
| VEAN | Iron | ppm | | | 15 | | |
| All component wear rates are normal. | Chromium Nickel | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 1 .1 | | <1 |
| | Lead | ppm | ASTM D5185m | | <1 1 | <1 | <1 |
| | Copper Tin | ppm | ASTM D5185m ASTM D5185m | | | 4 <1 | 3 |
| | Vanadium | ppm | | >15 | <1 0 | <1 | <1 |
| | White Metal | ppm | ASTM D5185m | NONE | _ | NONE | 0 NONE |
| | | scalar | *Visual | NONE | NONE NONE | NONE | |
| · | Yellow Metal | scalar | *Visual | NONE | NONE | INOINE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 5 | 6 | 0 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 0 |
| | Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | >0.2 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.2 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 9.5 | 9.6 | 10.1 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.1 | 20 | 20.6 |
| | 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 | NORM |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 1 | 5 | 7 |
| | Boron | ppm | ASTM D5185m | | 0 | <1 | 4 |
| 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 | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 142 | 143 | 144 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 17 | 29 | 242 |
| | Calcium | ppm | ASTM D5185m | | 4433 | 4432 | 3645 |
| | Phosphorus | ppm | ASTM D5185m | | 859 | 914 | 977 |
| | Zinc | ppm | ASTM D5185m | | 1040 | 1004 | 1143 |
| | Sulfur | ppm | ASTM D5185m | | 4087 | 3531 | 3678 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.4 | 12 | 13.5 |
| | Base Number (BN) | | ASTM D2896 | | 14.41 | 12.7 | 10.9 |
| | | | | | | | . 0.0 |

Contact/Location: PHILIP HARDER - PHIMOU







Certificate L2367

Laboratory Sample No.

Lab Number : 05773046 Unique Number : 10347663 Test Package : MOB 2

: TR05773046

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Feb 2023 : 22 Feb 2023 **Tested** Diagnosed

: 22 Feb 2023 - Wes Davis

PHIL HARDER 57803 350TH STREET MOUNTAIN LAKE, MN US 56159

Contact: PHILIP HARDER philbren@frontiernet.net T: 5(07)227-6074

To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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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