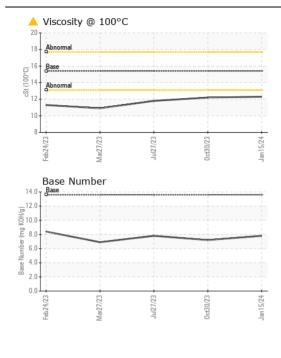
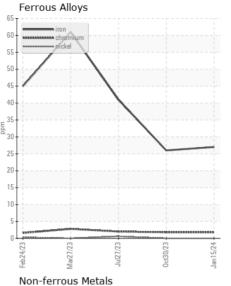
WEAR CONTAMINATION **FLUID CONDITION**

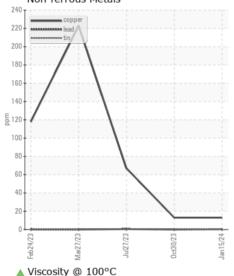
NORMAL NORMAL ATTENTION

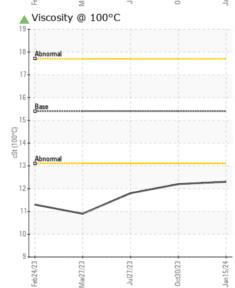
EPIROC T35 JPS22SED2703

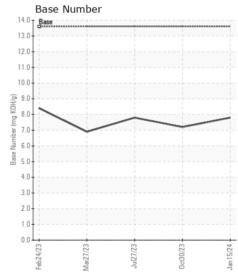
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|-------------------------|----------|-------------|------------|-------------|-------------|-------------|
| | Sample Number | | Client Info | | JR0197605 | JR0190864 | , |
| Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. | Sample Date | | Client Info | | 15 Jan 2024 | 30 Oct 2023 | 27 Jul 202 |
| | Machine Age | hrs | Client Info | | 2047 | 1732 | 1151 |
| | Oil Age | hrs | Client Info | | 315 | 500 | 575 |
| | Filter Age | hrs | Client Info | | 315 | 500 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | ATTENTION | ATTENTION | ABNORMA |
| (EAD | | | | 400 | | | |
| VEAR | Iron | ppm | ASTM D5185m | | 27 | 26 | 41 |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | | 2 | 2 | 2 |
| | Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | <1 |
| | Titanium | ppm | ASTM D5185m | _ | <1 | <1 | 7 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 4 | 5 | 5 |
| | Lead | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Copper | ppm | ASTM D5185m | | 13 | 13 | 67 |
| | Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| | Vanadium | ppm | ASTM D5185m | NONE | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 16 | 18 | <u>^</u> 29 |
| STOTAL MILLON | Potassium | ppm | ASTM D5185m | | <1 | 0 | 2 |
| There is no indication of any contamination in the oil. | Fuel | pp | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.3 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 9.7 | 10.1 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.3 | 23.6 | 23.1 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NON |
| | 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 |
| | | | | | | | |
| LUID CONDITION | Sodium | ppm | ASTM D5185m | | 2 | 0 | 2 |
| The oil viscosity is lower than normal. The BN result indicates that | Boron | ppm | ASTM D5185m | | 108 | 110 | 70 |
| there is suitable alkalinity remaining in the oil. Confirm oil type. | Barium | ppm | ASTM D5185m | | 0 | <1 | 5 |
| | Molybdenum | ppm | ASTM D5185m | | 259 | 265 | 210 |
| | Manganese | ppm | ASTM D5185m | | <1 | 1 | 3 |
| | Magnesium | ppm | ASTM D5185m | | 886 | 864 | 864 |
| | Calcium | ppm | ASTM D5185m | | 1511 | 1502 | 1440 |
| | Phosphorus | ppm | ASTM D5185m | | 803 | 848 | 843 |
| | Zinc | ppm | ASTM D5185m | | 1087 | 1120 | 1143 |
| | Sulfur | ppm | ASTM D5185m | | 3007 | 2892 | 2947 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | -25 | 19.0 | 19.5 | 19.6 |
| | Base Number (BN) | | ASTM D2896 | | 7.8 | 7.2 | 7.8 |













Laboratory

Sample No. Lab Number **Unique Number**

: JR0197605 : 06062487 : 10833869

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

: 18 Jan 2024

: 17 Jan 2024

Diagnostician : Don Baldridge

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)

CAROLINA CIVIL PO BOX 80337

RALEIGH, NC US 27623 Contact:

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