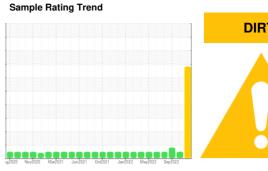


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Bearing and/or bushing wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

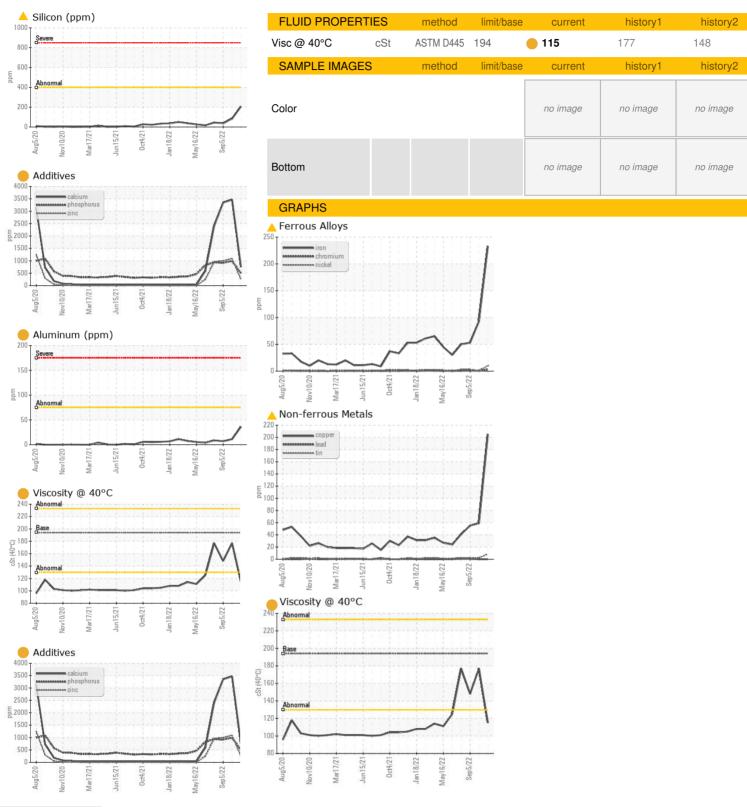
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

| Q1S) | | igŽ020 NovŽi | 020 Mar2021 Jun2021 | Oct2021 Jan2022 May2022 | Sep2022 | |
|------------------|--------|--------------|---------------------|-------------------------|----------------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0899217 | WC0888071 | WC0734275 |
| Sample Date | | Client Info | | 17 Jun 2024 | 07 Mar 2024 | 05 Sep 2022 |
| Machine Age | hrs | Client Info | | 13562 | 12945 | 12338 |
| Oil Age | hrs | Client Info | | 617 | 607 | 474 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >800 | 233 | 93 | 53 |
| Chromium | ppm | ASTM D5185m | >10 | 3 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <u> </u> | <1 | 3 |
| Titanium | ppm | ASTM D5185m | >15 | 3 | 1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >75 | 9 36 | 11 | 7 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | <u>^</u> 205 | 59 | △ 55 |
| Tin | ppm | ASTM D5185m | >8 | 8 | 2 | 2 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 37 | 127 | 7 | 38 |
| Barium | ppm | ASTM D5185m | 7 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 3 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 40 | 7 | 0 | 11 |
| Calcium | ppm | ASTM D5185m | 2650 | 747 | 3466 | 3348 |
| Phosphorus | ppm | ASTM D5185m | 1050 | 497 | 992 | 911 |
| Zinc | ppm | ASTM D5185m | 1075 | <u>248</u> | 1089 | 991 |
| Sulfur | ppm | ASTM D5185m | 5750 | 5143 | 15437 | 3383 |
| CONTAMINANTS | 8 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >400 | <u> </u> | 84 | 37 |
| Sodium | ppm | ASTM D5185m | | 4 | 1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | <1 | 0 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| 1.25.24) Dov. 1 | | | | Contoot/ oo | 0+100. N/II/ E 14/\/ | ATT TDANEW |

Contact/Location: MIKE WYATT - TRANEW



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0899217 Lab Number : 06218653 Unique Number : 11096850 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed : 26 Jun 2024 - Sean Felton

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)

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