

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area **TSI** Machine Id **12851** Component **Rear Differential** Fluid **{not provided} (--- GAL)**

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates to ICP data.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------------|-----------------------|----------|
| Sample Number | | Client Info | | WC0934506 | WC0843271 | |
| Sample Date | | Client Info | | 06 Jan 2024 | 21 Jul 2023 | |
| Machine Age | mls | Client Info | | 129728 | 42709 | |
| Oil Age | mls | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | ABNORMAL | ABNORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >500 | 79 | 77 | |
| Chromium | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | >100 | <1 | <1 | |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 190 | 241 | |
| Barium | ppm | ASTM D5185m | | 3 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | | 4 | 6 | |
| Magnesium | ppm | ASTM D5185m | | <1 | 4 | |
| Calcium | ppm | ASTM D5185m | | 3 | 4 | |
| Phosphorus | ppm | ASTM D5185m | | 1526 | 1483 | |
| Zinc | ppm | ASTM D5185m | | 17 | 7 | |
| Sulfur | ppm | ASTM D5185m | | 27537 | 25056 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >75 | 7 | 8 | |
| Sodium | ppm | ASTM D5185m | | 2 | 4 | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 3 | |
| Water | % | ASTM D6304 | >.2 | 0.038 | 0.036 | |
| ppm Water | ppm | ASTM D6304 | >2000 | 384 | 367.3 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >20000 | A 115679 | <mark>▲</mark> 123707 | |
| Particles >6µm | | ASTM D7647 | >5000 | <u> </u> | ▲ 45296 | |
| Particles >14µm | | ASTM D7647 | >640 | <u> </u> | 1 267 | |
| Particles >21µm | | ASTM D7647 | >160 | 109 | 45 | |
| Particles >38µm | | ASTM D7647 | >40 | 1 | 1 | |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | A 24/22/17 | 4 /23/17 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 2.26 | 2.31 | |

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OIL ANALYSIS REPORT

scalar

cSt

cSt

Scale

method

*Visual

method

ASTM D445

ASTM D445

ASTM D2270

method

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>.2

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

NEG

NEG

57.7

10.4

171

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

historv1

NFG

NEG

57.7

10.5

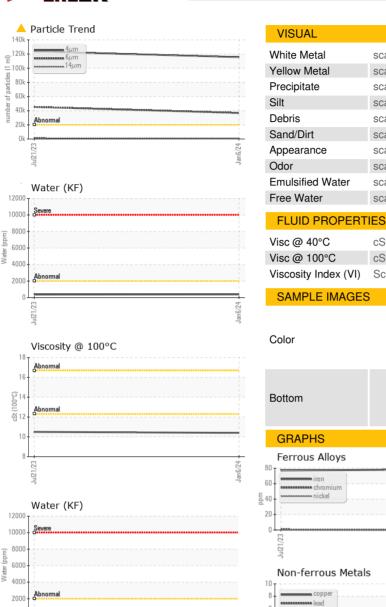
173

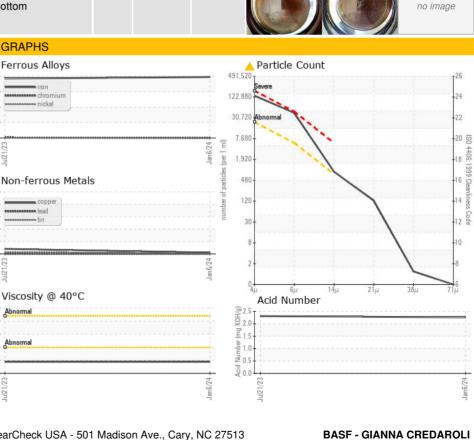
history2

history

history2

no image







Abnorma 80

0

130

120

110

CSt (40°C) 06 (40°C) 08 (40°C)

70

60

50

Viscosity @ 40°C

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0934506 Received : 15 May 2024 500 WHITE PLAINS RD Lab Number Tested : 22 May 2024 TARRYTOWN, NY :06180626 Unique Number : 11031952 Diagnosed : 22 May 2024 - Jonathan Hester US 10591 Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: GIANNA CREDAROLI Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gianna.credaroli@basf.com * - 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)

140

120 (100 (40°C)

80 S

60

40

Ab

Ah

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T:

F: