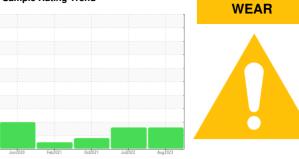


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

history2

Area METRO Machine Id METRO 21038 Component

Front Differential Fluid NOT GIVEN (--- 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 elemental data.

📥 Wear

Gear wear is indicated.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

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

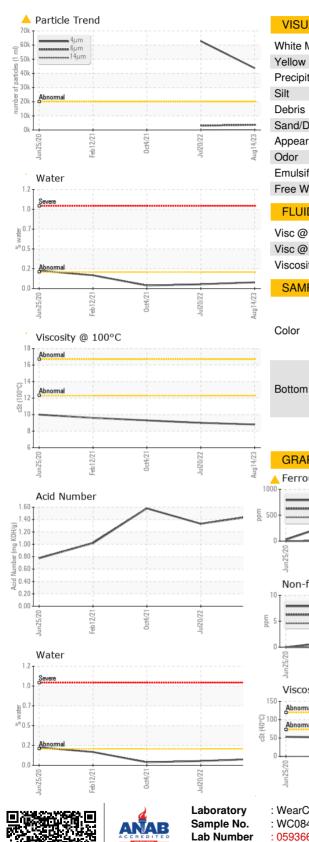
| | | methou | IIIIII/Dase | current | Thistory I | TIStory2 |
|------------------|----------|--------------|-------------|-------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0843203 | WC0728442 | WC0661179 |
| Sample Date | | Client Info | | 14 Aug 2023 | 20 Jul 2022 | 04 Oct 2021 |
| Machine Age | mls | Client Info | | 356836 | 251424 | 161676 |
| Oil Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >500 | <u> </u> | 5 79 | 5 12 |
| Chromium | ppm | ASTM D5185m | >10 | 6 | 4 | 4 |
| Nickel | ppm | ASTM D5185m | >10 | 5 | 4 | 1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >100 | 2 | 1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | >5 | | | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 96 | 78 | 92 |
| Barium | ppm | ASTM D5185m | | 28 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 2 | 1 | 1 |
| Manganese | ppm | ASTM D5185m | | 16 | 11 | 10 |
| Magnesium | ppm | ASTM D5185m | | 159 | 148 | 149 |
| Calcium | ppm | ASTM D5185m | | 4 | 7 | 9 |
| Phosphorus | ppm | ASTM D5185m | | 1680 | 1588 | 1634 |
| Zinc | ppm | ASTM D5185m | | 43 | 10 | 9 |
| Sulfur | ppm | ASTM D5185m | | 25056 | 25056 | 21058 |
| CONTAMINANTS | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >75 | 57 | 46 | 42 |
| Sodium | ppm | ASTM D5185m | | 16 | 13 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 0 |
| Water | % | ASTM D6304 | >.2 | 0.075 | 0.052 | 0.037 |
| ppm Water | ppm | ASTM D6304 | >2000 | 751.3 | 529.8 | 376.1 |
| FLUID CLEANLIN | VESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >20000 | 43676 | 62756 | |
| Particles >6µm | | ASTM D7647 | >5000 | 3686 | 3029 | |
| Particles >14µm | | ASTM D7647 | >640 | 167 | 94 | |
| Particles >21µm | | ASTM D7647 | >160 | 46 | 9 | |
| Particles >38µm | | ASTM D7647 | >40 | 2 | 1 | |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | A 23/19/15 | 🔺 23/19/14 | |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.46 | 1.33 | 1.58 |
| :41:46) Rev: 2 | 3 | | Contac | t/Location: GIAN | | |

Report Id: bastarhd [WUSCAR] 05936664 (Generated: 09/08/2023 12:41:46) Rev: 2

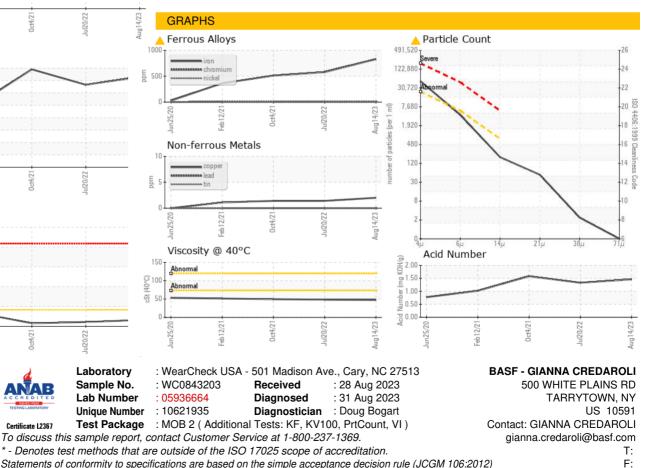
Contact/Location: GIANNA CREDAROLI - BASTARHD



OIL ANALYSIS REPORT



| 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 | VLITE |
| 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 | >.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | | 47.6 | 48.4 | 49.6 |
| Visc @ 100°C | cSt | ASTM D445 | | 8.8 | 9 | 9.3 |
| Viscosity Index (VI) | Scale | ASTM D2270 | | 166 | 169 | 173 |
| SAMPLE IMAGES | 6 | method | limit/base | current | history1 | history2 |
| | | | | | | Ng The second se |



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

Certificate L2367