

OIL ANALYSIS REPORT

Area HOTLINE/120 MILL 120 MILL MTR STAND 2B NORTH BRG 1415-034-0231

North Bearing

Fluid ROYAL PURPLE SYNFILM GT 68 (30 GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

🔺 Wear

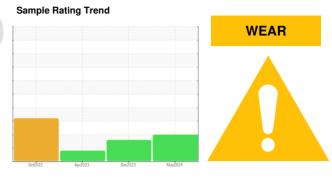
The lead level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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.



| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|--------------|------------|-------------------|-------------|-------------|
| Sample Number | | Client Info | | KFS0004797 | KFS0002502 | KFS0003397 |
| Sample Date | | Client Info | | 10 May 2024 | 20 Dec 2023 | 17 Apr 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >2 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | 3 | 5 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >20 | <u> </u> | 6 51 | 42 |
| Copper | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 4 | 3 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 90 | 74 | 88 | 81 |
| Calcium | ppm | ASTM D5185m | | 0 | 2 | 2 |
| Phosphorus | ppm | ASTM D5185m | | 2 | 31 | 7 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 17 |
| Sulfur | ppm | ASTM D5185m | | 22151 | 21800 | 22231 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | 2 | 0 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 48498 | 13029 | 9300 |
| Particles >6µm | | ASTM D7647 | >2500 | <u> </u> | 958 | 986 |
| Particles >14µm | | ASTM D7647 | >160 | 51 | 25 | 43 |
| Particles >21µm | | ASTM D7647 | >40 | 8 | 6 | 10 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 1 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/14 | A 23/19/13 | 21/17/12 | 20/17/13 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | KOUK | | | | 0.00 | 0.40 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.39 | 0.38 | 0.40 |

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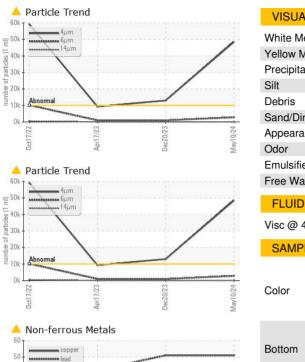
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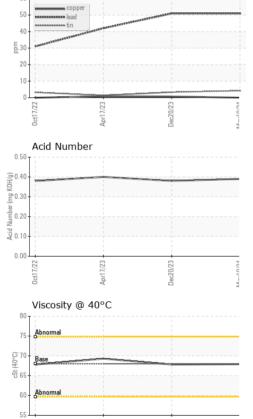


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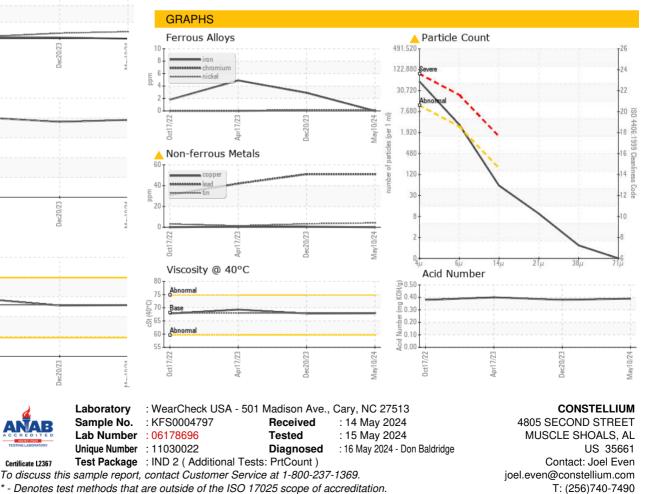
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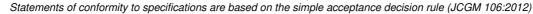




Apr17/23

| | | 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 | >2 | NEG | NEG | NEG | | |
| Free Water | scalar | *Visual | | NEG | NEG | NEG | | |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 | | |
| Visc @ 40°C | cSt | ASTM D445 | 68 | 67.9 | 67.8 | 69.3 | | |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 | | |
| Color | | | | | | | | |





Certificate 12367

Dec20/23

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