

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

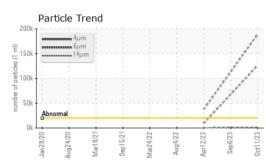
Fluid Condition

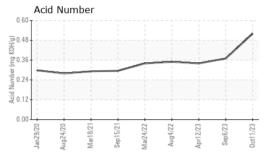
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

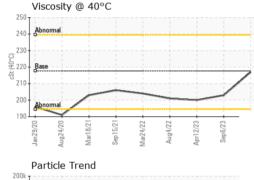
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|-------------|-------------------|
| Sample Number | | Client Info | | WC0866663 | WC0854667 | WC0809606 |
| Sample Date | | Client Info | | 11 Oct 2023 | 06 Sep 2023 | 12 Apr 2023 |
| Machine Age | mths | Client Info | | 12 | 3 | 12 |
| Oil Age | mths | Client Info | | 1 | 3 | 12 |
| Oil Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >200 | 113 | 85 | 11 |
| Chromium | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | 3 | 0 |
| Lead | ppm | ASTM D5185m | >100 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >200 | <1 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >25 | 0 | <1 | 0 |
| 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 | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 1 | 2 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | 2 | 3 |
| Calcium | ppm | ASTM D5185m | | 2 | 6 | <1 |
| Phosphorus | ppm | ASTM D5185m | | 478 | 458 | 410 |
| Zinc | ppm | ASTM D5185m | | 0 | 6 | 0 |
| Sulfur | ppm | ASTM D5185m | | 36 | 164 | 0 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 43 | 1 16 | <mark>▲</mark> 52 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >20000 | 189109 | | 37697 |
| Particles >6µm | | ASTM D7647 | >5000 | 126191 | | 9413 |
| Particles >14µm | | ASTM D7647 | >640 | 1666 | | 484 |
| Particles >21µm | | ASTM D7647 | >160 | 101 | | 83 |
| Particles >38µm | | ASTM D7647 | >40 | 3 | | 8 |
| Particles >71µm | | ASTM D7647 | >10 | 2 | | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 25/24/18 | | 22/20/16 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | ma KOH/a | ASTM D8045 | | 0.52 | 0.37 | 0.34 |



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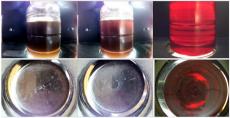
f particles (1 ml) 1001

50

n

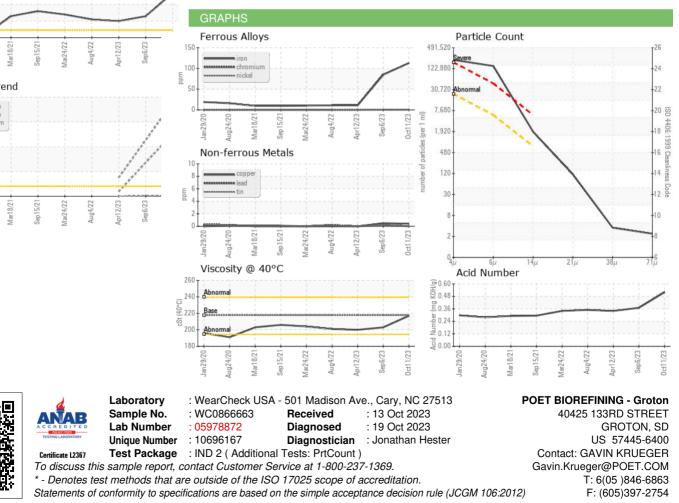
Jan 29/20 Aug 24/20

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | 🔺 MODER | 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 |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 217.7 | 217 | 203 | 200 |
| SAMPLE IMAGES | 6 | method | limit/base | current | history1 | history2 |
| | | | | | | |



Bottom

Color



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