

OIL ANALYSIS REPORT

Area [604295868 SR] L-5 NUT TMPR ADJ (S/N 20051544) Gearbox

Fluid GEAR OIL ISO 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

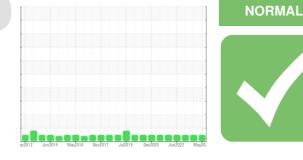
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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



Sample Rating Trend

| SAMPLE INFORM | /IATION | method | limit/base | current | history1 | history2 |
|------------------|----------------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WC0854430 | WC0605475 | WC0562485 |
| Sample Date | | Client Info | | 16 May 2024 | 01 Jun 2023 | 02 Dec 2022 |
| Machine Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| 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 | >200 | <1 | 1 | 7 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 0 | 3 |
| Lead | ppm | ASTM D5185m | >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185m | >25 | 0 | <1 | 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 | 50 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185m | 15 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 15 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 50 | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 50 | 5 | 0 | 3 |
| Phosphorus | ppm | ASTM D5185m | 350 | 197 | 474 | 178 |
| Zinc | ppm | ASTM D5185m | 100 | 7 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 12500 | 2425 | 1189 | 2122 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 4 | 3 | 9 |
| Sodium | ppm | ASTM D5185m | | 1 | 0 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.85 | 0.77 | 0.76 | 0.69 |



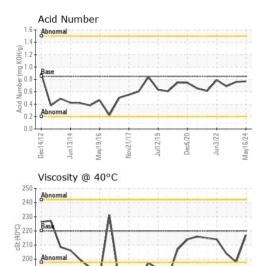
190 180 Dec14/12

Jun13/14

May19/16

111Curd

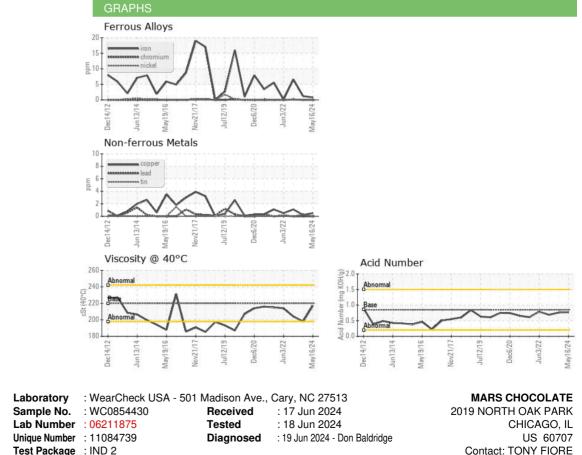
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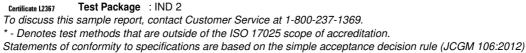


Mav16/24

Dec6/20

| 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 |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 217 | 198 | 204 |
| SAMPLE IMAGES | \$ | method | limit/base | current | history1 | history2 |
| Color | | | | | | |
| Bottom | | | | | | |





ule (JCGM 106:2012) F: Contact/Location: TONY FIORE - MARSCHI

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