

OIL ANALYSIS REPORT

Sample Rating Trend



L11 Machine Id MAZAK 310402

Spindel

Area

Fluid FUCHS RENOLIN ZAF B 2 HT ZINC FREE (29 GAL)

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 fluid. The amount and size of particulates present in the system are acceptable.

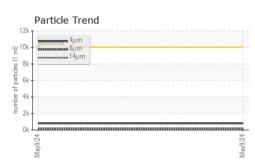
Fluid Condition

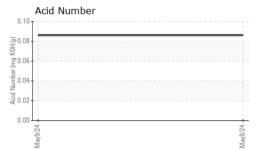
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

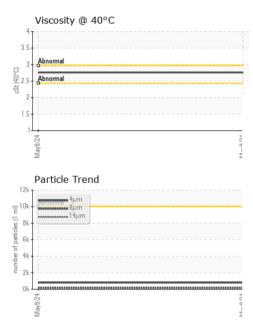
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | FCH0000076 | | |
| Sample Date | | Client Info | | 09 May 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 0 | | |
| Chromium | ppm | ASTM D5185m | >2 | 0 | | |
| Nickel | ppm | ASTM D5185m | >2 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >2 | 0 | | |
| Lead | ppm | ASTM D5185m | >25 | 0 | | |
| Copper | ppm | ASTM D5185m | >7 | 6 | | |
| Tin | ppm | ASTM D5185m | >10 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 0 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | | 0 | | |
| Calcium | ppm | ASTM D5185m | | 0 | | |
| Phosphorus | ppm | ASTM D5185m | | 46 | | |
| Zinc | ppm | ASTM D5185m | | 41 | | |
| Sulfur | ppm | ASTM D5185m | | 678 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 2 | | |
| Sodium | ppm | ASTM D5185m | - | - | | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| Water | % | ASTM D6304 | >0.1 | NEG | | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 795 | | |
| Particles >6µm | | ASTM D7647 | >2500 | 165 | | |
| Particles >14µm | | ASTM D7647 | >160 | 8 | | |
| Particles >21µm | | ASTM D7647 | | 1 | | |
| Particles >38µm | | ASTM D7647 | >10 | 0 | | |
| Particles >71µm | | ASTM D7647 | | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/14 | 17/15/10 | | |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.086 | | |



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*Visual NONE White Metal NONE scalar Yellow Metal *Visual NONE NONE scalar NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE NONE Debris *Visual NONE NONE scalar Sand/Dirt NONE NONE scalar *Visual NORML NORML Appearance scalar *Visual Odor *Visual NORML NORML scalar **Emulsified Water** scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES Visc @ 40°C cSt ASTM D445 2.76 SAMPLE IMAGES Color no image no image Bottom no image no imade GRAPHS Ferrous Alloys Particle Count 491,52 122,88 30 72 7.68 (per 1 ml Mav9/24 4406 1,920 :1999 Cle Non-ferrous Metals 480 120 14 30 214 Viscosity @ 40°C Acid Number 0.10) (D/H0) 0.08 3.5 Ē 0.06 € £2.5 St · 은 0.04 Acid Ni 0.00 Mav9/24 Mav9/74 Puell : WearCheck USA - 501 Madison Ave., Cary, NC 27513 DANA - FAIRFIELD CUSTOM GEARS AND DRIVES : FCH0000076 Received : 16 May 2024 2400 SAGAMORE PKWY S #2400 Lab Number : 06182313 Tested LAFAYETTE, IN : 21 May 2024 Unique Number : 11033639 Diagnosed : 21 May 2024 - Jonathan Hester US 47905 Test Package : PLANT Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Certificate 12367

Laboratory

Sample No.

T:

F:

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