

## **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.

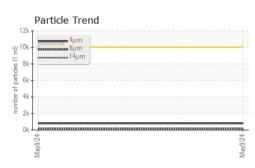
#### Fluid Condition

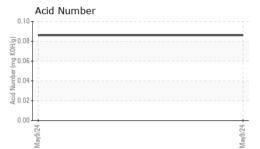
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

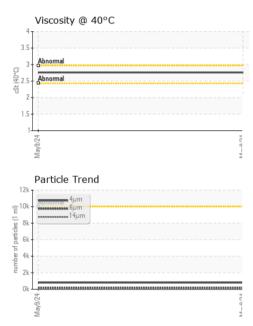
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		FCH0000076		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	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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