

OIL ANALYSIS REPORT

[603681472 SDR] SWWM DIS PMP (S/N 20046213) Component

Gearbox Fluic GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

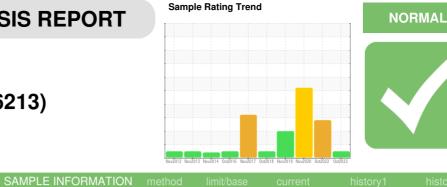
All component wear rates are normal.

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 Number		Client Info		WC0562272	WC0605323	WC0440609
Sample Date		Client Info		23 Oct 2023	30 Oct 2022	01 Nov 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	A 235	96
Chromium	ppm	ASTM D5185m	>15	0	2	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	0	5	3
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			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	50	0	0	<1
Barium	ppm	ASTM D5185m	15	0	<1	2
Molybdenum	ppm	ASTM D5185m	15	0	<1	<1
Manganese	ppm	ASTM D5185m		0	2	1
Magnesium	ppm	ASTM D5185m	50	<1	0	0
Calcium	ppm	ASTM D5185m	50	2	2	2
Phosphorus	ppm	ASTM D5185m	350	405	392	385
Zinc	ppm	ASTM D5185m	100	0	60	52

CONTAMINANTS		method				history2
Silicon	ppm	ASTM D5185m	>50	2	1 79	9328
Sodium	ppm	ASTM D5185m		0	3	4
Potassium	ppm	ASTM D5185m	>20	0	0	0

FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.56	0.34	0.354
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT	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

scalar

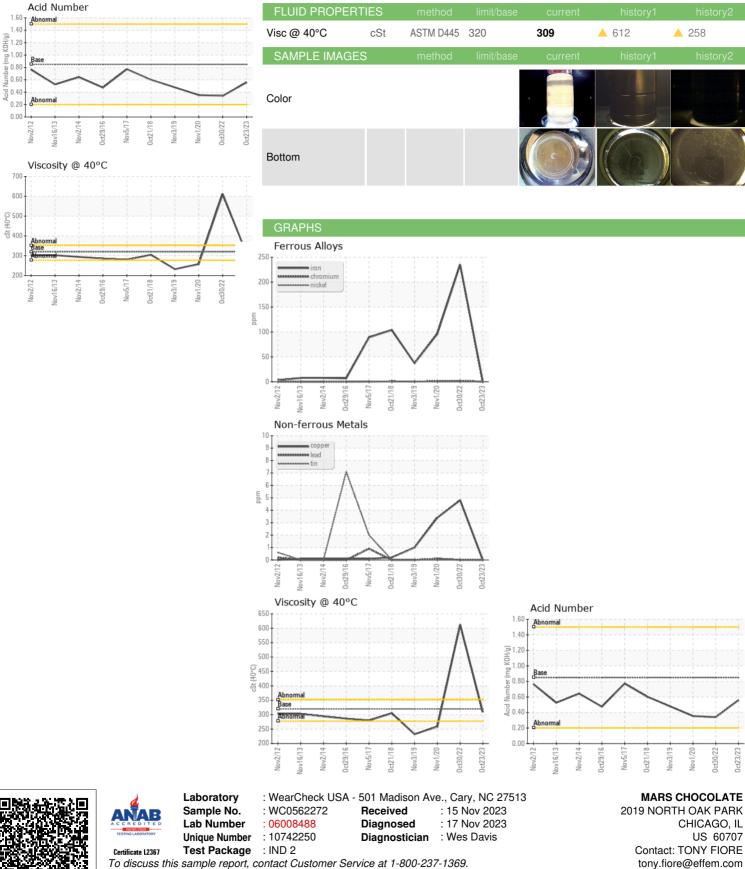
*Visual

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* - 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)

Contact/Location: TONY FIORE - MARSCHI

lct23/23

F:

0ct30/22

CHICAGO, IL

T: (773)745-2279

US 60707

Vov1/20