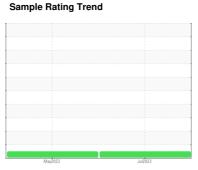


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id 102-LYO-903

Component **Hydraulic System** 

**NAVI-GUARD PREMIUM AW-32 HYDRAULIC (** 

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#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

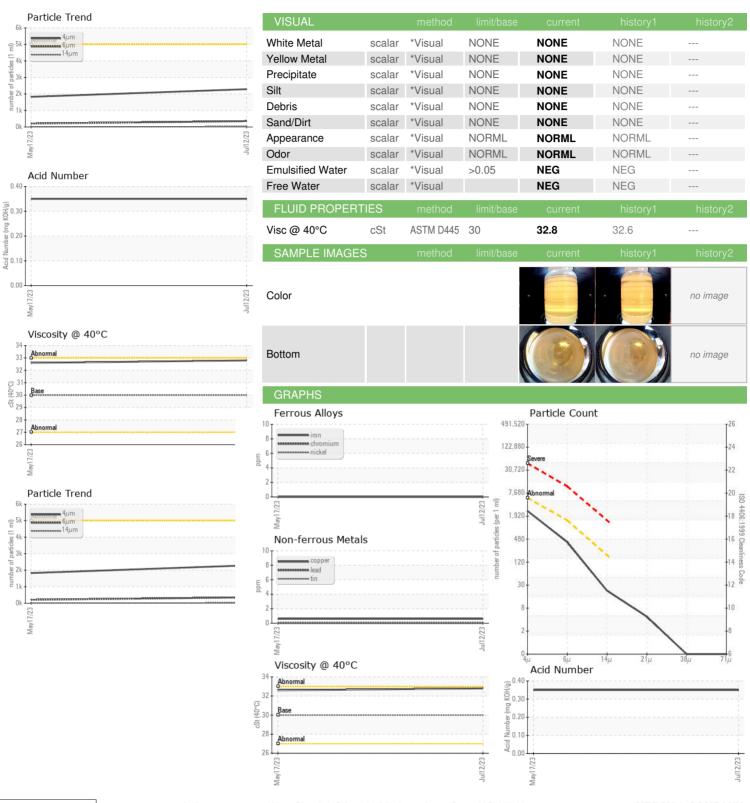
### **Fluid Condition**

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

C ( LTR)			May2023	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0789080	WC0789096	
Sample Date		Client Info		12 Jul 2023	17 May 2023	
Machine Age	yrs	Client Info		0	0	
Oil Age	yrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	<1	<1	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		5	6	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		15	18	
Calcium	ppm	ASTM D5185m		121	145	
Phosphorus	ppm	ASTM D5185m		284	275	
Zinc	ppm	ASTM D5185m		340	337	
Sulfur	ppm	ASTM D5185m		3946	3914	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2289	1827	
Particles >6µm		ASTM D7647	>1300	354	208	
Particles >14µm		ASTM D7647	>160	19	12	
Particles >21µm		ASTM D7647	>40	4	1	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	18/15/11	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.35	



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package

: WC0789080 : 05927810 : 10607757 : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Aug 2023 Diagnosed

: 18 Aug 2023 : Wes Davis Diagnostician

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)

**MERCK & COMPANY** 

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