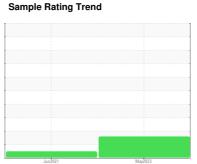


# **OIL ANALYSIS REPORT**



**VISUAL METAL** 



# Machine Id **940572**

Component

**Hydraulic System** 

AW HYDRAULIC OIL ISO 32 (--- GAL)

### **DIAGNOSIS**

#### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

Moderate concentration of visible metal present. All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

			Jun2021	May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0778173	WC0585226	
Sample Date		Client Info		31 May 2023	29 Jun 2021	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	17	15	
Chromium	ppm	ASTM D5185m	>10	2	1	
Nickel	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>10	2	3	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	17	17	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	2	6	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	2	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	25	1	0	
Calcium	ppm	ASTM D5185m	200	113	103	
Phosphorus	ppm	ASTM D5185m	300	356	343	
Zinc	ppm	ASTM D5185m	370	423	392	
Sulfur	ppm	ASTM D5185m	2500	2516	2237	
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	6	
Sodium	ppm	ASTM D5185m		<1	2	
Potassium	ppm	ASTM D5185m	>20	<1	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		1268	
Particles >6µm		ASTM D7647	>1300		206	
Particles >14µm		ASTM D7647	>160		19	
Particles >21µm		ASTM D7647	>40		6	
Particles >38µm		ASTM D7647	>10		0	
Particles >71μm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		17/15/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

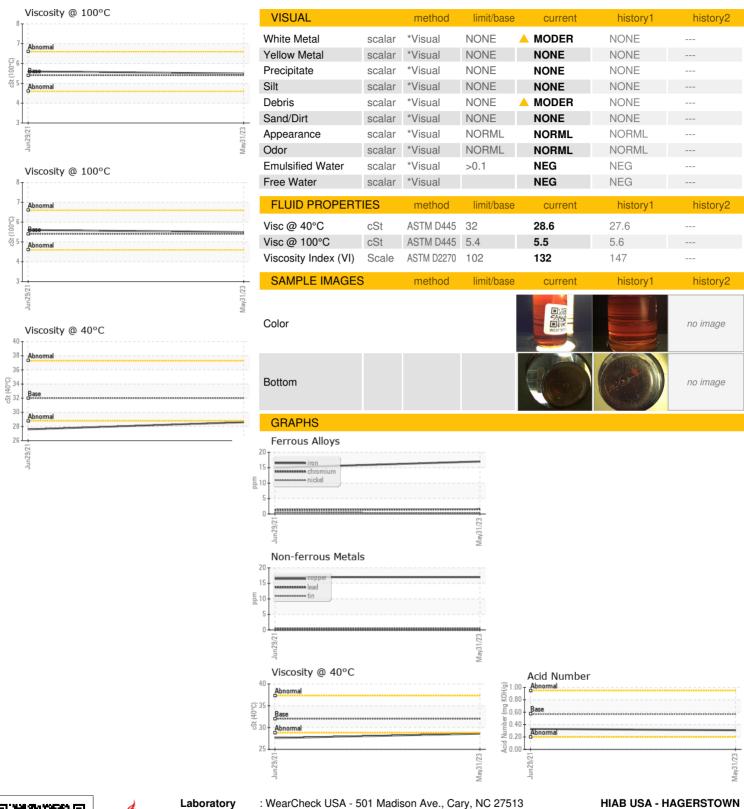
mg KOH/g ASTM D8045 0.57

0.330

0.31



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 05924226 : 10604173

: WC0778173

Diagnosed

Received : 14 Aug 2023 : 15 Aug 2023

Diagnostician : Don Baldridge

Test Package : MOB 2 ( Additional Tests: KV100, VI ) 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)

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