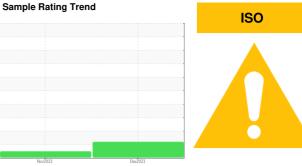


# **OIL ANALYSIS REPORT**



# Machine Id HIAB KB21937

Component

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 32 (--- QTS)** 

## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

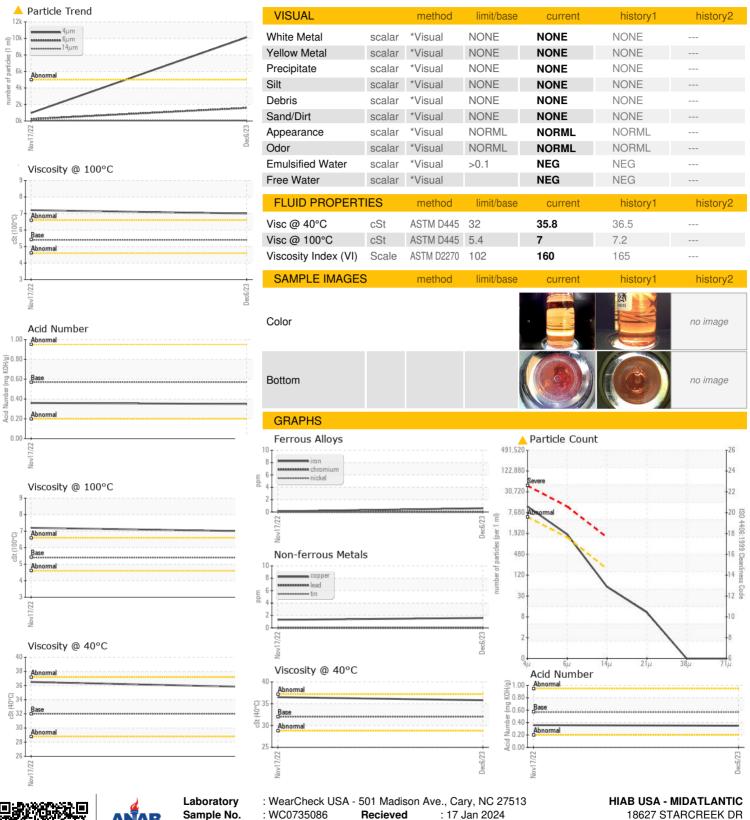
#### **Fluid Condition**

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

		L	Nov2022	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0735086	WC0698815	
Sample Date		Client Info		06 Dec 2023	17 Nov 2022	
Machine Age	yrs	Client Info		0	0	
Oil Age	yrs	Client Info		0	0	
Oil Changed	,	Client Info		N/A	Not Changd	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	2	1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m	7.0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	0	0	
Calcium	ppm	ASTM D5185m	200	52	46	
Phosphorus	ppm	ASTM D5185m	300	387	334	
Zinc	ppm	ASTM D5185m	370	447	452	
Sulfur	ppm	ASTM D5185m	2500	4520	4273	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	
Sodium	ppm	ASTM D5185m	720	0	0	
Potassium	ppm	ASTM D5185m	>20	<1	1	
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 10131	980	
Particles >6µm		ASTM D7647	>1300	▲ 1579	242	
Particles >6µm		ASTM D7647 ASTM D7647	>1300	49	55	
Particles >14µm		ASTM D7647	>40	9	20	
Particles >38µm		ASTM D7647	>10	0	2	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	△ 21/18/13	17/15/13	
	TION					
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.35	0.36	



## OIL ANALYSIS REPORT







Sample No. Lab Number **Unique Number** 

: WC0735086 : 06062649

: 10834031

Recieved Diagnosed

: 19 Jan 2024 Diagnostician : Jonathan Hester

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.

18627 STARCREEK DR CORNELIUS, NC US 28031 Contact: JOHN MORRIS

john.morris@hiab.com T: (704)883-4328

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (704)895-4801