

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# KB99853 - ALLIED MANASSAS

**Hydraulic System** 

AW HYDRAULIC OIL ISO 32 (--- GAL)

### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

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.

		Jul2020 0	Oct2020 Aug2021 Apr202	22 Aug2022 Jan2023 Jan2023	Mar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0679387	WC0735064	WC0708450
Sample Date		Client Info		17 Mar 2023	25 Jan 2023	24 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	6	6
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	1	2
Tin	ppm	ASTM D5185m	>10	0	0	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	1	1
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	<1	<1	<1
Calcium	ppm	ASTM D5185m	200	52	54	52
Phosphorus	ppm	ASTM D5185m	300	347	343	334
Zinc	ppm	ASTM D5185m	370	425	439	419
Sulfur	ppm	ASTM D5185m	2500	4879	4591	4248
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	1	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>11802</b>	1426	684
Particles >6µm		ASTM D7647	>1300	<b>1634</b>	272	112
Particles >14μm		ASTM D7647	>160	104	28	16
Particles >21µm		ASTM D7647	>40	29	6	5
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/14	18/15/12	17/14/11
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FLUID DEGRADA	HON	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 0.57

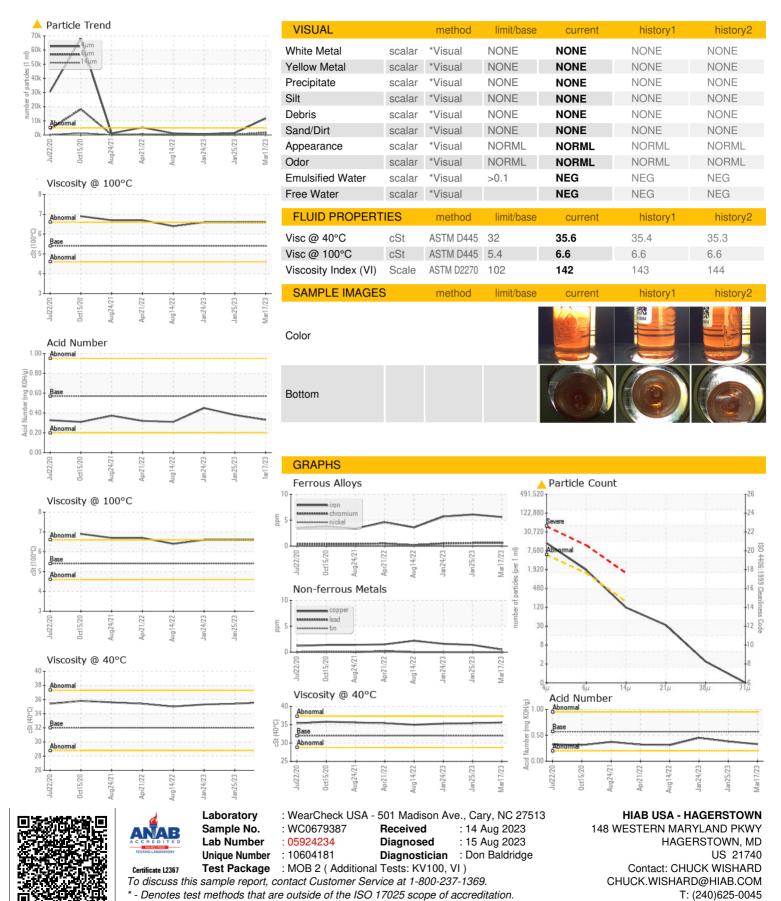
0.38

0.33

0.45



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

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