

### **PROBLEM SUMMARY**

### Sample Rating Trend

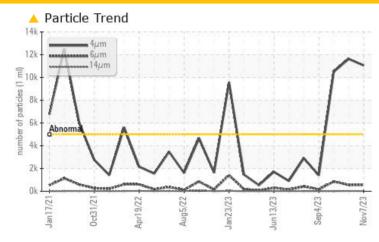


# Martinsville [Martinsville] Hydraulic - Steering

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (35 GAL)** 

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: George Willis )

PROBLEMATIC TEST RE	ESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	<u>▲</u> 11627	<u>▲</u> 10502
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>2</b> 1/16/11	<b>2</b> 1/16/12	<b>2</b> 1/17/10

**Customer Id: MARCAT** Sample No.: WC0805439 Lab Number: 06008339 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

### 29 Oct 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### 03 Oct 2023 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 04 Sep 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





### **OIL ANALYSIS REPORT**

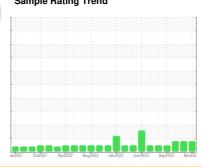
### Sample Rating Trend

## ISO

# Martinsville [Martinsville] Hydraulic - Steering

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (35 GAL)** 





### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: George Willis )

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 6 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.

		an 2021 Oct2	2021 Apr2022 Aug202	2 Jan 2023 Jun 2023 Sep 20	023 Nov202	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805439	WC0805438	WC0769054
Sample Date		Client Info		07 Nov 2023	29 Oct 2023	03 Oct 2023
Machine Age	hrs	Client Info		11466	41911	10710
Oil Age	hrs	Client Info		9890	9170	8640
Oil Changed		Client Info		Not Changd	Filtered	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	3	3
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	20	22	21
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	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	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	6	<1	4
Calcium	ppm	ASTM D5185m	200	72	65	77
Phosphorus	ppm	ASTM D5185m	300	276	233	242
Zinc	ppm	ASTM D5185m	370	300	242	247
Sulfur	ppm	ASTM D5185m	2500	1508	1074	1112
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.008	0.007	0.004
ppm Water	ppm	ASTM D6304	>500	84.8	74.2	43.8
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>11056</b>	<u></u> 11627	▲ 10502
Particles >6µm		ASTM D7647	>1300	555	557	854
Particles >14μm		ASTM D7647	>160	19	30	10
Particles >21µm		ASTM D7647	>40	7	8	2
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u></u> 21/16/12	<u></u> 21/17/10
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2

Acid Number (AN)

0.21

0.18

mg KOH/g ASTM D8045 0.57

0.22



### OIL ANALYSIS REPORT





Certificate L2367

Lab Number **Unique Number** 

: 06008339

: 10742101

Diagnosed Diagnostician

: 17 Nov 2023 : Don Baldridge

Test Package : IND 2 (Additional Tests: KF)

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) CATLETTSBURG, KY US 41169

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