

PROBLEM SUMMARY

Sample Rating Trend

ISO

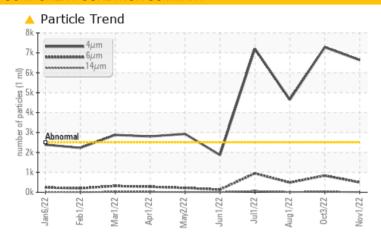
HSS - HIGH PRESS

Component

Hydraulic System

TOTAL AZOLLA ZS22 (5 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for target ISO and system capacity.

PROBLEMATIC T	EST RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>2500	△ 6634	7280	4646
Oil Cleanliness	ISO 4406 (c)	>18/16/13	20/16/10	20/17/12	19/16/11

Customer Id: HAWCHANC **Sample No.:** WC0700549 Lab Number: 05682756 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

03 Oct 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.



01 Aug 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.



01 Jul 2022 Diag: Don Baldridge

NORMAL



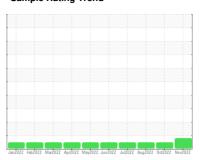
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



HSS - HIGH PRESS

Component

Hydraulic System

TOTAL AZOLLA ZS22 (5 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for target ISO and system capacity.

Wear

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.

Jan2022 Feb 2022 Man2022 Apr2022 Man2022 Jun2022 Jun2022 Oct2022 Nov2022							
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0700549	WC0700544	WC0700532	
Sample Date		Client Info		01 Nov 2022	03 Oct 2022	01 Aug 2022	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	4	<1	<1	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1	
Lead	ppm	ASTM D5185m	>20	0	<1	<1	
Copper	ppm	ASTM D5185m	>20	1	<1	1	
Tin	ppm	ASTM D5185m	>20	0	<1	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		0	0	2	
Barium	ppm	ASTM D5185m		2	0	<1	
Molybdenum	ppm	ASTM D5185m		0	<1	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m		0	<1	<1	
Calcium	ppm	ASTM D5185m		47	49	48	
Phosphorus	ppm	ASTM D5185m		313	330	319	
Zinc	ppm	ASTM D5185m		415	422	407	
Sulfur	ppm	ASTM D5185m		1006	986	868	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	1	<1	<1	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	<1	0	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>2500	△ 6634	7280	4646	
Particles >6µm		ASTM D7647	>640	498	836	486	
Particles >14µm		ASTM D7647	>80	8	28	13	
Particles >21µm		ASTM D7647	>20	1	3	2	
Particles >38µm		ASTM D7647	>4	0	0	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	20/16/10	20/17/12	19/16/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	

Acid Number (AN) mg KOH/g ASTM D8045

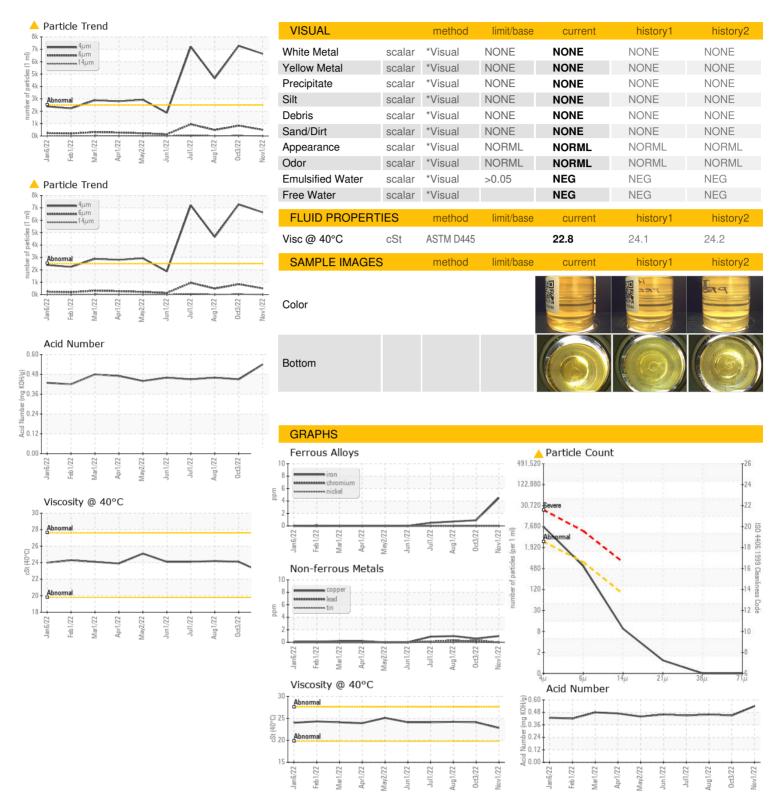
0.45

0.54

0.46



OIL ANALYSIS REPORT







Certificate L2367

Laboratory **Unique Number**

Sample No. Lab Number

Test Package : PLANT

: WC0700549 : 05682756

: 10202328

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 02 Nov 2022 Received : 08 Nov 2022

Diagnosed Diagnostician

: Doug Bogart

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)

HAWE HYDRAULICS - HUNTERSVILLE

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