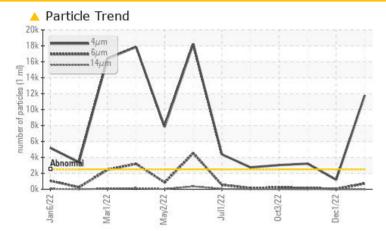


Machine Id HSS - LOW PRESS Component Hydraulic System Fluid TOTAL AZOLLA ZS 22 (400 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	NORMAL	ATTENTION		
Particles >4µm	ASTM D7647	>2500	<u> </u>	1204	A 3216		
Particles >6µm	ASTM D7647	>640	A 718	32	163		
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u> </u>	17/12/7	1 9/15/9		

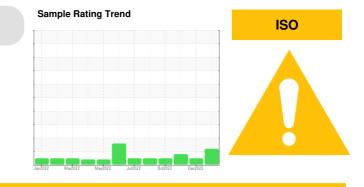
Customer Id: HAWCHANC Sample No.: WC0700562 Lab Number: 05757658 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 Dec 2022 Diag: Don Baldridge



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 Nov 2022 Diag: Doug Bogart

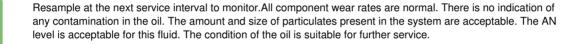


T NOV 2022 Diag: Doug Bogart

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 update for target ISO.All component wear rates are normal. There is a moderate 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.



NORMAL







view report





OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

current

history1

history2

Machine Id HSS - LOW PRESS

Hydraulic System Fluid TOTAL AZOLLA ZS 22 (400 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. 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

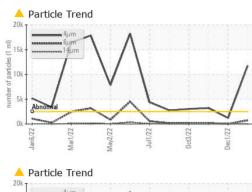
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

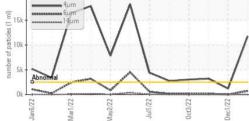
SAMIFLE INFURI	NATION	method	iinii/base	current	nistory i	nistoryz
Sample Number		Client Info		WC0700562	WC0700555	WC0700550
Sample Date		Client Info		01 Feb 2023	01 Dec 2022	01 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m	220	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead		ASTM D5185m	>20	0	0	0
Copper	ppm ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m	~	0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm			U	-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m		1	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	3	0
Calcium	ppm	ASTM D5185m		50	109	51
Phosphorus	ppm	ASTM D5185m		310	333	319
Zinc	ppm	ASTM D5185m		410	390	422
Sulfur	ppm	ASTM D5185m		773	729	987
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> 11778</u>	1204	A 3216
Particles >6µm		ASTM D7647	>640	<u> </u>	32	163
Particles >14µm		ASTM D7647	>80	7	1	3
Particles >21µm		ASTM D7647	>20	2	0	1
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13	1 /17/10	17/12/7	▲ 19/15/9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.45	0.49

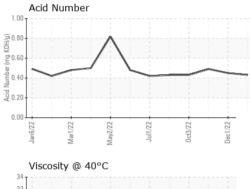
limit/base

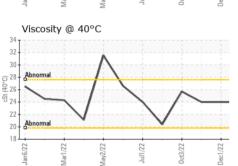


OIL ANALYSIS REPORT



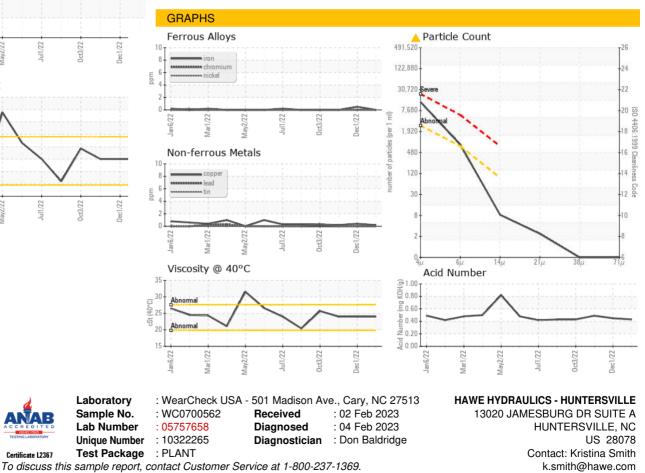






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		24.0	24.0	24.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					PRE	

Bottom



* - 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)

Certificate L2367

Contact/Location: Kristina Smith - HAWCHANC