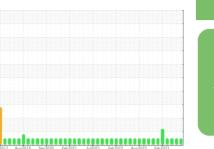


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



HAWE TEST BRANCH PSL/PSV TEST STAND (S/N AV714/1)

Component

Hydraulic System

TOTAL AZOLLA ZS 22 (300 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

x2017 Aug2019 Smp2020 Fmb2021 Jul2021 Fmb2022 Aug2022 Fmb2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0700580	WC0700575	WC0700570
Sample Date		Client Info		02 May 2023	03 Apr 2023	01 Mar 2023
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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
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	0
Aluminum	ppm	ASTM D5185m	>20	6	0	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	<1
Tin	ppm	ASTM D5185m	>20	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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		14	0	0
Calcium	ppm	ASTM D5185m		0	56	52
Phosphorus	ppm	ASTM D5185m		5	332	301
Zinc	ppm	ASTM D5185m		2	439	394
Sulfur	ppm	ASTM D5185m		0	1354	1340
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	<1
Sodium	ppm	ASTM D5185m		6	0	<1
Potassium	ppm	ASTM D5185m	>20	25	1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	98	347	279
Particles >6µm		ASTM D7647	>640	46	113	101
Particles >14µm		ASTM D7647	>80	9	27	14
Particles >21µm		ASTM D7647	>20	3	8	3
Particles >38μm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	14/13/10	16/14/12	15/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

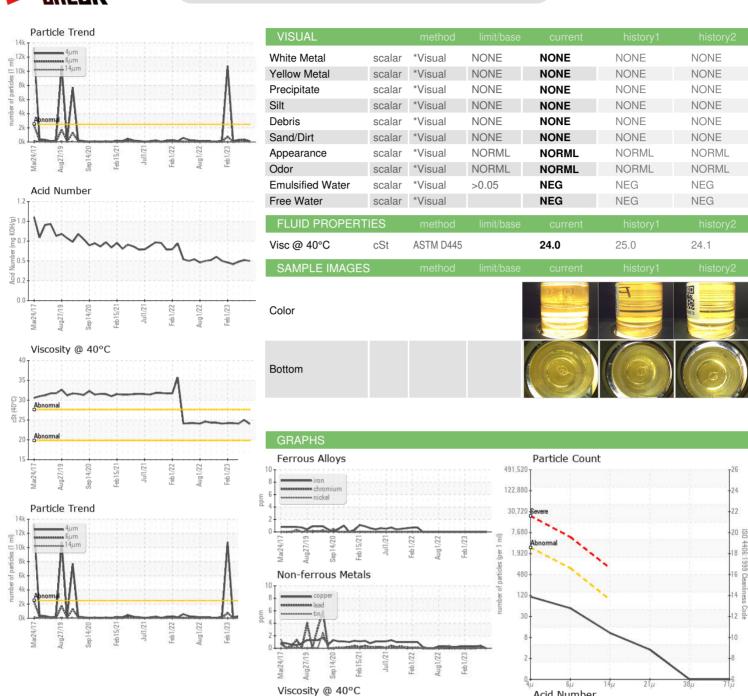
0.49

0.48

0.47



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 03 May 2023 : WC0700580 Received

: 05836607 Diagnosed : 05 May 2023 : Don Baldridge : 10455410 Diagnostician

Feb 15/71

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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

13020 JAMESBURG DR SUITE A HUNTERSVILLE, NC US 28078

Contact: MICHAEL SCHMIDT

mi.schmidt@hawe.com

T: (704)790-5641 F: (704)509-6302

Acid Number

(B1.2 1.0 0.7 0.7

0.5 0.2 0.2 0.0 Acid

Feb1/23