

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

LINE 18 UNILOY (S/N 4423)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

Recommendation

DIAGNOSIS

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

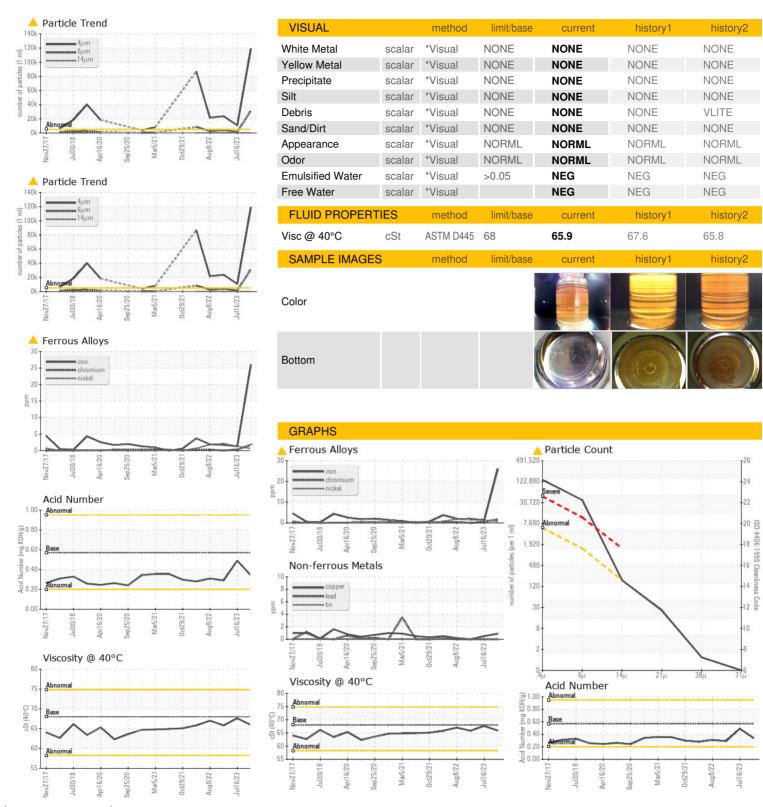
Fluid Condition

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

		Vov2017 Jul	018 Apr2020 Sep2020	Mar2021 Oct2021 Aug2022	Jui2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851669	WC0794140	WC0736475
Sample Date		Client Info		25 Feb 2024	16 Jul 2023	29 Dec 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<u>^</u> 26	1	2
Chromium	ppm	ASTM D5185m	>20	2	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	1	2
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	<1	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
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	<1	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	<1	0	8
Calcium	ppm	ASTM D5185m	200	49	6	43
Phosphorus	ppm	ASTM D5185m	300	360	391	356
Zinc	ppm	ASTM D5185m	370	431	512	447
Sulfur	ppm	ASTM D5185m	2500	2951	1268	3681
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 10706	△ 23693
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 1492	△ 3709
Particles >14μm		ASTM D7647	>160	160	59	119
Particles >21µm		ASTM D7647	>40	22	11	26
Particles >38μm		ASTM D7647	>10	1	1	3
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/22/14	<u>\$\lambda\$\$ 21/18/13</u>	<u>^</u> 22/19/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.34	0.49	0.29



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Certificate L2367

Laboratory Sample No. Lab Number

: WC0851669

: 06100096 **Unique Number** : 10898326 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested**

: 27 Feb 2024 Diagnosed : 27 Feb 2024 - Don Baldridge

Altium Packaging - VERONA - Plant 1044A

601 SELDON AVE VERONA, PA US 15147

T: (412)423-2975

Contact: MIKE BARBOUR mike.barbour@altiumpkg.com

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)

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