

OIL ANALYSIS REPORT

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Machine Id **TL-42 5** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 32 (--- GAL)**

DIAGNOSIS

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.

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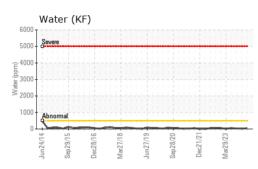
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST46527	ST43501	ST43891
Sample Date		Client Info		26 Mar 2024	21 Dec 2023	28 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	2
Chromium	ppm	ASTM D5185m	>20	<1	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	2	0	0
Lead	ppm	ASTM D5185m	>20	<1	<1	<1
Copper	ppm	ASTM D5185m	>20	7	6	7
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	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	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	<1	0	<1
Calcium	ppm	ASTM D5185m	200	36	29	28
Phosphorus	ppm	ASTM D5185m	300	138	129	122
Zinc	ppm	ASTM D5185m	370	70	62	65
Sulfur	ppm	ASTM D5185m	2500	2403	2106	2289
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.05	0.004	0.002	0.003
ppm Water	ppm	ASTM D6304	>500	41	25	31.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1553	1729	636
Particles >6µm		ASTM D7647	>1300	231	264	80
Particles >14µm		ASTM D7647	>160	14	21	8
Particles >21µm		ASTM D7647	>40	6	5	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	18/15/11	18/15/12	16/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.16	0.15	0.18

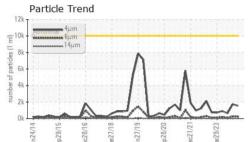
Report Id: ZAPDAR [WUSCAR] 06137414 (Generated: 04/05/2024 18:07:05) Rev: 1

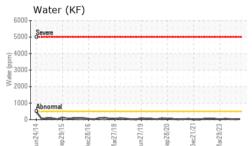
Contact/Location: Greg Walton - ZAPDAR Page 1 of 2

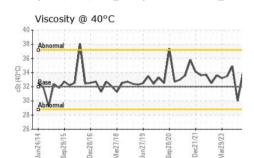


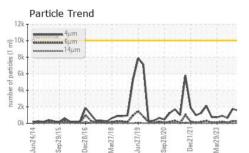
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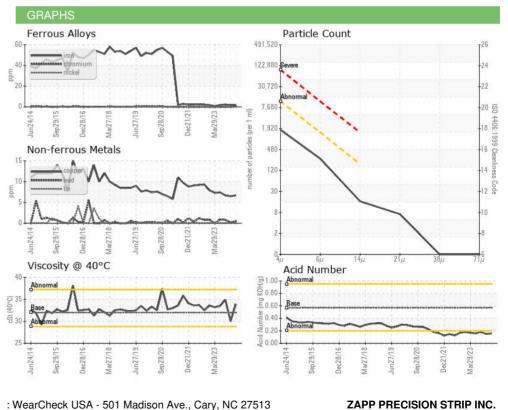








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: 03 Apr 2024

: 04 Apr 2024

: 05 Apr 2024 - Don Baldridge



Certificate 12367 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.

: ST46527

:06137414

266 SAMUEL BARNET BLVD. DARTMOUTH, MA US 02745 Contact: Greg Walton

> greg.walton@zapp.com T: F: (508)998-6310

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

Report Id: ZAPDAR [WUSCAR] 06137414 (Generated: 04/05/2024 18:07:05) Rev: 1

Laboratory

Sample No.

Lab Number

Unique Number : 10956879

Contact/Location: Greg Walton - ZAPDAR Page 2 of 2