

OIL ANALYSIS REPORT

MELT SHOP - CRANES LOWER HYD UNIT E-CRANE

Component **Hydraulic System**

AW HYDRAULIC OIL ISO 46 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035502	RP0035407	RP0035182
Sample Date		Client Info		27 Sep 2023	26 Jul 2023	28 Jun 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	<1	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	0	0	<1
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	5	0	0	0
Barium	ppm	ASTM D5185m	5	<1	2	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	3	<1	4
Calcium	ppm	ASTM D5185m	200	52	51	47
Phosphorus	ppm	ASTM D5185m	300	336	331	324
Zinc	ppm	ASTM D5185m	370	425	427	405
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>15	<1	1	<1
Sodium	ppm	ASTM D5185m	>10	1	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	ppm %	ASTM D5165111	>0.05	0.019	0.009	0.009
ppm Water		ASTM D6304 ASTM D6304		194.8	98.9	97.0
	ppm					
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1398	128	49
Particles >6µm		ASTM D7647	>1300	116	38	26
Particles >14µm		ASTM D7647	>160	8	5	4
Particles >21µm		ASTM D7647		3	2	1
Particles >38µm		ASTM D7647		0	0	0
Particles >71µm		ASTM D7647 ISO 4406 (c)		19/14/10	14/12/10	13/13/0
Oil Cleanliness	TION		>19/17/14	18/14/10	14/12/10	13/12/9
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.33	0.32	0.33



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Laboratory Sample No. Lab Number **Unique Number**

: RP0035502

: 05964658 : 10671209 : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Sep 2023 Received

Diagnosed Diagnostician

: 04 Oct 2023 : Wes Davis

Test Package Certificate L2367 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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