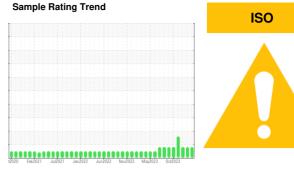


OIL ANALYSIS REPORT

MELT SHOP - CRANES **UPPER HYD UNIT E-CRANE**

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)



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. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039209	RP0038036	RP0038066
Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	5	3
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	0
Lead	ppm	ASTM D5185m	>20	3	<1	0
Copper	ppm	ASTM D5185m	>20	3	1	2
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	10	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	0
Manganese	ppm	ASTM D5185m		2	0	<1
Magnesium	ppm	ASTM D5185m	25	3	2	<1
Calcium	ppm	ASTM D5185m	200	50	52	50
Phosphorus	ppm	ASTM D5185m	300	336	349	332
Zinc	ppm	ASTM D5185m	370	439	417	420
CONTAMINANTS)	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	4	1	<1
Water	%	ASTM D6304	>0.05	0.007	0.007	0.003
ppm Water	ppm	ASTM D6304	>500	71	72	32
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	19382	▲ 36086	<u>▲</u> 13501
Particles >6µm		ASTM D7647	>1300	41	81	57
Particles >14μm		ASTM D7647	>160	4	5	3
Particles >21µm		ASTM D7647	>40	1	2	0
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 1/13/9	<u>22/14/10</u>	△ 21/13/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
				000	,	/



OIL ANALYSIS REPORT







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

: 06077671 : 10859762 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0039209 Recieved

Diagnosed

: 01 Feb 2024 : 02 Feb 2024 Diagnostician : Wes Davis

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.

Contact: MARIO JOHNSON

Mario.johnson@outokumpu.com T: (251)321-4105

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

HWY 43 N

US 36513

CALVERT, AL