

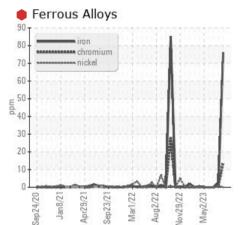
PROBLEM SUMMARY

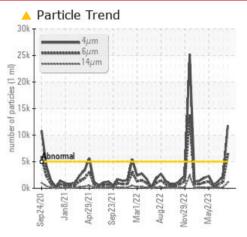
Machine Id Machine Id MELT SHOP LADLE WALL LADLE PREHEATER HYDRAULIC UNIT (S/N 15-3000-0741-0020)

Component Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (20 GAL)

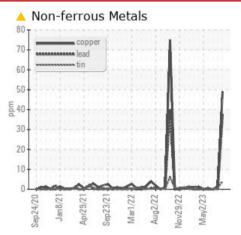
COMPONENT CONDITION SUMMARY





Sample Rating Trend





RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ATTENTION	NORMAL			
Iron	ppm	ASTM D5185m	>20	ම 76	2	0			
Lead	ppm	ASTM D5185m	>20	A 37	<1	0			
Copper	ppm	ASTM D5185m	>20	<u> </u>	1	0			
Particles >4µm		ASTM D7647	>5000	<u> </u>	2140	1314			
Particles >6µm		ASTM D7647	>1300	🔺 6431	1166	716			
Particles >14µm		ASTM D7647	>160	🔺 1094	1 98	122			
Particles >21µm		ASTM D7647	>40	<u> </u>	6 7	41			
Particles >38µm		ASTM D7647	>10	<u> </u>	10	6			
Particles >71µm		ASTM D7647	>3	<u> </u>	1	1			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	🔺 18/17/15	18/17/14			
Appearance	scalar	*Visual	NORML	🔺 LAYRD	NORML	NORML			

Customer Id: OUTCALAL Sample No.: RP0038424 Lab Number: 05938916 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED A	CTIONS							
Action	Status	Date	Done By	Description				
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.				
Change Filter			?	We recommend you service the filters on this component.				
Resample			?	We recommend an early resample to monitor this condition.				

HISTORICAL DIAGNOSIS



26 Jul 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The pH level of this fluid is within the acceptable limits. pH is 9. The condition of the oil is acceptable for the time in service.



view report

28 Jun 2023 Diag: Jonathan Hester

NORMAL



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

31 May 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP LADLE WALL LADLE PREHEATER HYDRAULIC UNIT (S/N 15-3000-0741-0020) Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (20 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

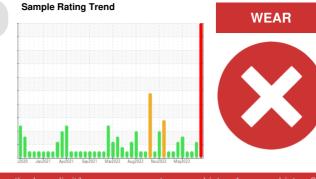
Bearing and/or bushing wear is indicated.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The pH level of this fluid is within the acceptable limits @ 10.0.

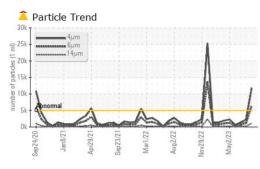


SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038424	RP0035478	RP0035149
Sample Date		Client Info		29 Aug 2023	26 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	● 76	2	0
Chromium	ppm	ASTM D5185m	>20	14	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>20	4 37	<1	0
Copper	ppm	ASTM D5185m	>20	<u> </u>	1	0
Tin	ppm	ASTM D5185m	>20	4	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	<1	0
Barium	ppm	ASTM D5185m	5	0	1	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	0	4
Calcium	ppm	ASTM D5185m	50	11	<1	0
Phosphorus	ppm	ASTM D5185m	175	272	10	2
Zinc	ppm	ASTM D5185m	62	722	19	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	10	2	0
Sodium	ppm	ASTM D5185m		<1	7	<1
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>55	39.0	42.9	42.2
ppm Water	ppm	ASTM D6304	>55000	390000	429000	422000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	2140	1314
Particles >6µm		ASTM D7647	>1300	<u> </u>	1166	716
Particles >14µm		ASTM D7647	>160	<u> </u>	1 98	122
Particles >21µm		ASTM D7647	>40	A 369	6 7	41
Particles >38µm		ASTM D7647	>10	<u> </u>	10	6
Particles >71µm		ASTM D7647	>3	<u> </u>	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/20/17	▲ 18/17/15	18/17/14

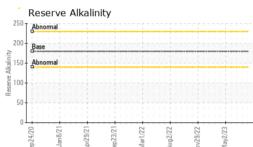


OIL ANALYSIS REPORT

VISUAL







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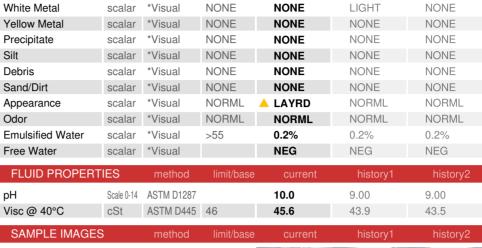
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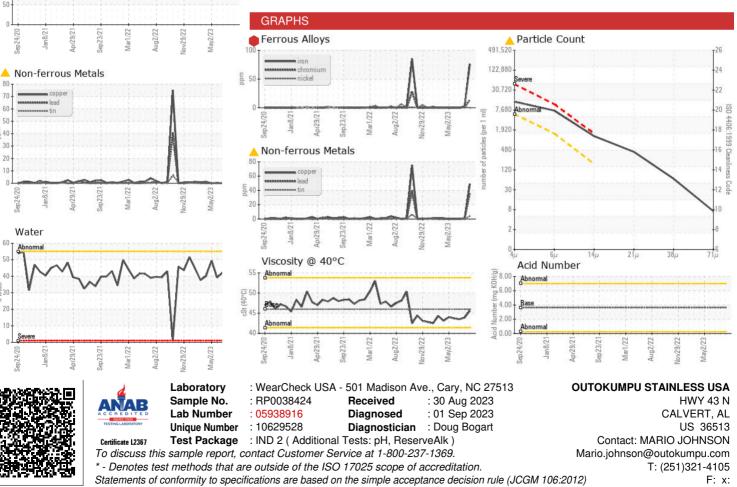
Sep24/20





Bottom

Color



Submitted By: DALE ROBINSON

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