

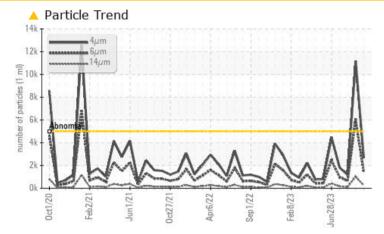
PROBLEM SUMMARY

MELT SHOP - HYDRAULIC Machine Id MELT SHOP EAF-DE-SLAG HYDRAULIC UNIT (S/N 15-2000-0770)

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (200 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Sample Rating Trend

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	ABNORMAL	NORMAL				
Particles >6µm	ASTM D7647	>1300	🔺 1450	6090	640				
Particles >14µm	ASTM D7647	>160	🔺 247	🔺 1036	109				
Particles >21µm	ASTM D7647	>40	<u> </u>	A 349	37				
Particles >38µm	ASTM D7647	>10	1 3	5 4	6				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	1 /20/17	17/16/14				

Customer Id: OUTCALAL Sample No.: RP0035337 Lab Number: 06028746 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Nov 2023 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The pH level of this fluid is within the acceptable limits. pH is 11.0.

27 Sep 2023 Diag: Doug Bogart



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 11.0. The condition of the oil is acceptable for the time in service.



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 at 11.0. The condition of the oil is acceptable for the time in service.









OIL ANALYSIS REPORT

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP EAF-DE-SLAG HYDRAULIC UNIT (S/N 15-2000-0770) Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (200 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

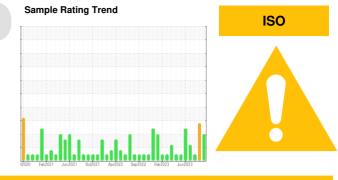
All component wear rates are normal.

Contamination

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

Fluid Condition

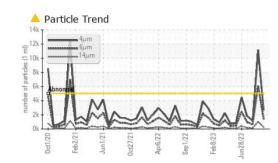
The pH level of this fluid is within the acceptable limits @ 9.0. The condition of the oil is acceptable for the time in service.



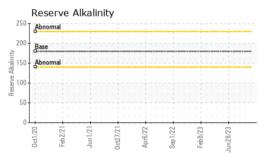
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035337	RP0035328	RP0035499
Sample Date		Client Info		06 Dec 2023	07 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	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	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	1	0
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		<1	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	0	3
Calcium	ppm	ASTM D5185m	50	0	0	2
	ppm	ASTM D5185m	175	2	0	4
	ppm	ASTM D5185m	62	0	0	9
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>55	35.4	36.0	33.4
ppm Water	ppm	ASTM D6304	>55000	354000	360000	334000
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2662	<u> </u>	1174
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 6090	640
Particles >14µm		ASTM D7647	>160	<u> </u>	1 036	109
Particles >21µm		ASTM D7647	>40	<u> </u>	▲ 349	37
Particles >38µm		ASTM D7647	>10	▲ 13	<u>▲</u> 54	6
Particles >71µm		ASTM D7647	>3	1	<u>6</u>	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	▲ 21/20/17	17/16/14



OIL ANALYSIS REPORT







80

75 70

(10°C)

13 5!

50 Base

45

200

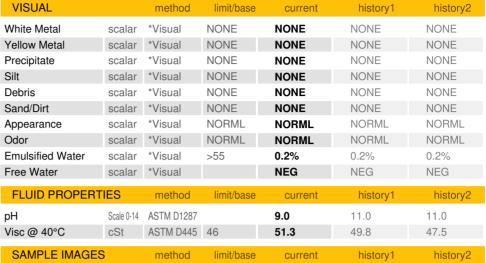
150

50

Alkalinit

eserve 100

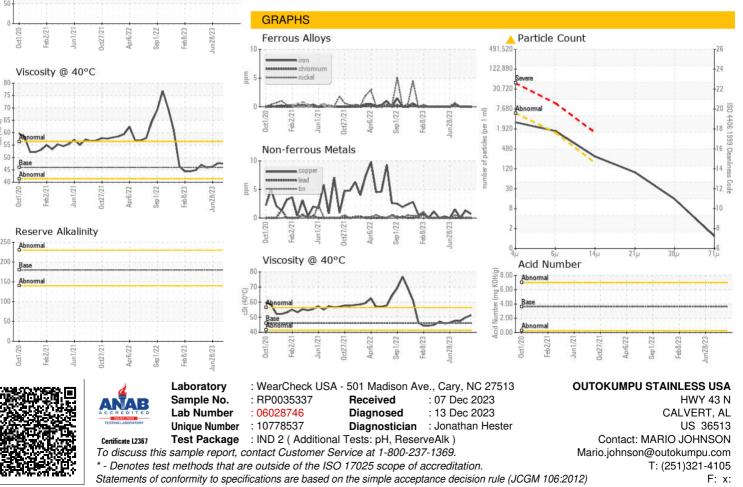
Bas





Bottom

Color



Submitted By: DALE ROBINSON

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