

PROBLEM SUMMARY

Sample Rating Trend

ISO



MELT SHOP - HYDRAULIC

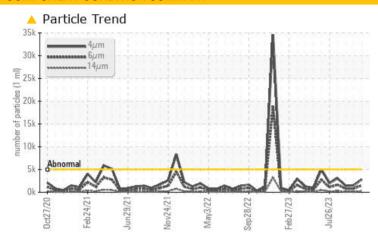
MELT SHOP AOD SOUTH INLINE LADLE PREHEATER (S/N 15-3000-0740-1300)

Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (20 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status		ATTENTION	NORMAL	NORMAL				
Particles >6µm	ASTM D7647 >	·1300 ▲ 1535	810	768				
Particles >14μm	ASTM D7647 >	·160 △ 261	138	131				
Particles >21μm	ASTM D7647 >	△ 88	46	44				
Particles >38μm	ASTM D7647 >	·10 🔺 14	7	7				
Oil Cleanliness	ISO 4406 (c) >	19/17/14 🔺 19/18/15	18/17/14	18/17/14				

Customer Id: OUTCALAL Sample No.: RP0038062 Lab Number: 06028745 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Nov 2023 Diag: Jonathan Hester

NORMAL



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.



27 Sep 2023 Diag: Doug Bogart

NORMAL



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.



29 Aug 2023 Diag: Doug Bogart

ISO



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





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

history2

history1

MELT SHOP - HYDRAULIC

MELT SHOP AOD SOUTH INLINE LADLE PREHEATER (S/N 15-3000-0740-1300)

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (20 GAL)

DIAGNOSIS

Recommendation

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

Wear

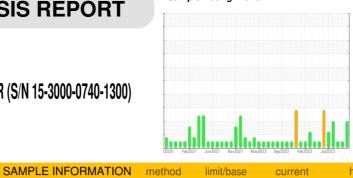
All component wear rates are normal.

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.

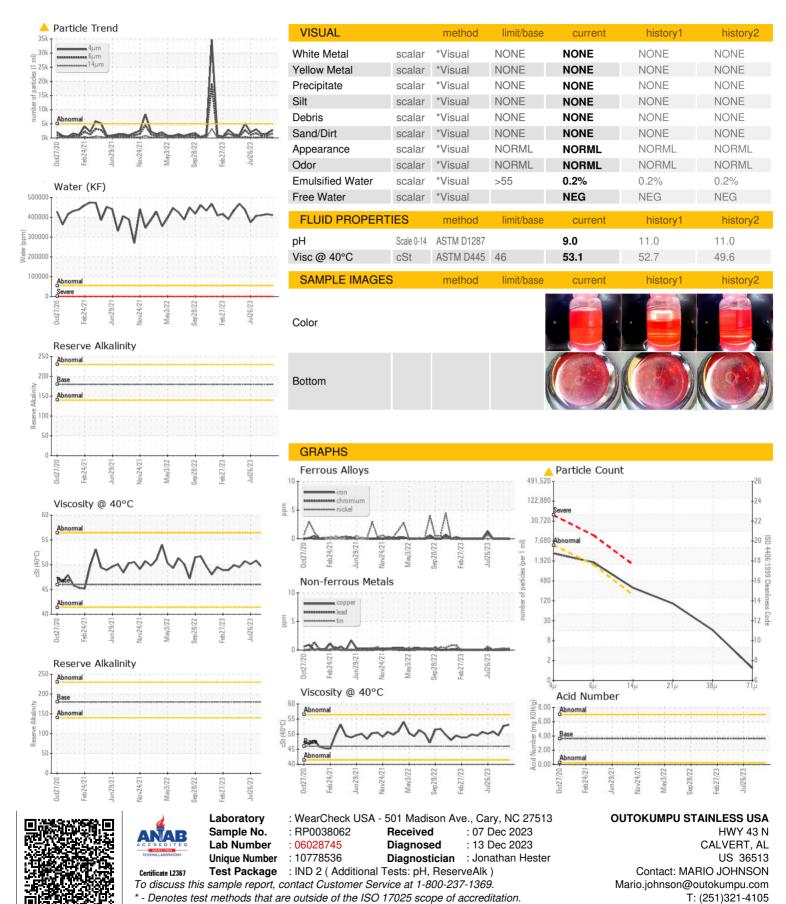


limit/base

Sample Number		Client Info		RP0038062	RP0037954	RP0035500
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	NORMAL	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	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	0
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	5	<1	0	5
Calcium	ppm	ASTM D5185m	50	0	0	6
Phosphorus	ppm	ASTM D5185m	175	2	0	8
Zinc	ppm	ASTM D5185m	62	0	0	18
CONTAMINANT	S	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	<1
Water	%	ASTM D6304	>55	41.1	41.5	41.1
ppm Water	ppm	ASTM D6304	>55000	411000	415000	411000
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2819	1488	1409
Particles >6µm		ASTM D7647	>1300	<u> </u>	810	768
Particles >14μm		ASTM D7647	>160	<u>^</u> 261	138	131
Particles >21µm		ASTM D7647	>40	A 88	46	44
Particles >38µm		ASTM D7647	>10	<u> </u>	7	7
Particles >71µm		ASTM D7647	>3	1	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/18/15	18/17/14	18/17/14
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OIL ANALYSIS REPORT



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

F: x: