

PROBLEM SUMMARY

Sample Rating Trend

ISO

MELT SHOP - HYDRAULIC

MELT SHOP LADLE WALL SLIDE GATE HYDRAULIC UNIT (S/N 15-3000-0470)

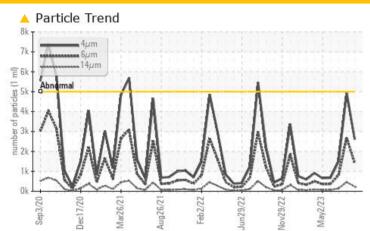
Component

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (66 GAL)

10 0m202 Market Market

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		ATTENTIO	N ABNORMAL	NORMAL					
Particles >6µm	ASTM D7647 >13	300 41422	<u>^</u> 2687	810					
Particles >14µm	ASTM D7647 >16	60 42	457	138					
Particles >21µm	ASTM D7647 >40) <u>^</u> 82	<u></u> 154	46					
Particles >38µm	ASTM D7647 >10) <u> </u>	<u> </u>	7					
Oil Cleanliness	ISO 4406 (c) >19	0/17/14 🔺 19/18/15	5 \(\(\Limin \) 19/19/16	18/17/14					

Customer Id: OUTCALAL Sample No.: RP0038429 Lab Number: 05938923 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 dougb@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

26 Jul 2023 Diag: Jonathan Hester

ISO



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



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

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.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

MELT SHOP - HYDRAULIC

MELT SHOP LADLE WALL SLIDE GATE HYDRAULIC UNIT (S/N 15-3000-0470)

Componen

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (66 GAL)

DIAGNOSIS

Recommendation

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

Wear

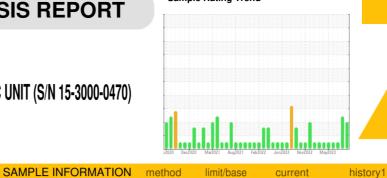
All component wear rates are normal.

Contamination

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

Fluid Condition

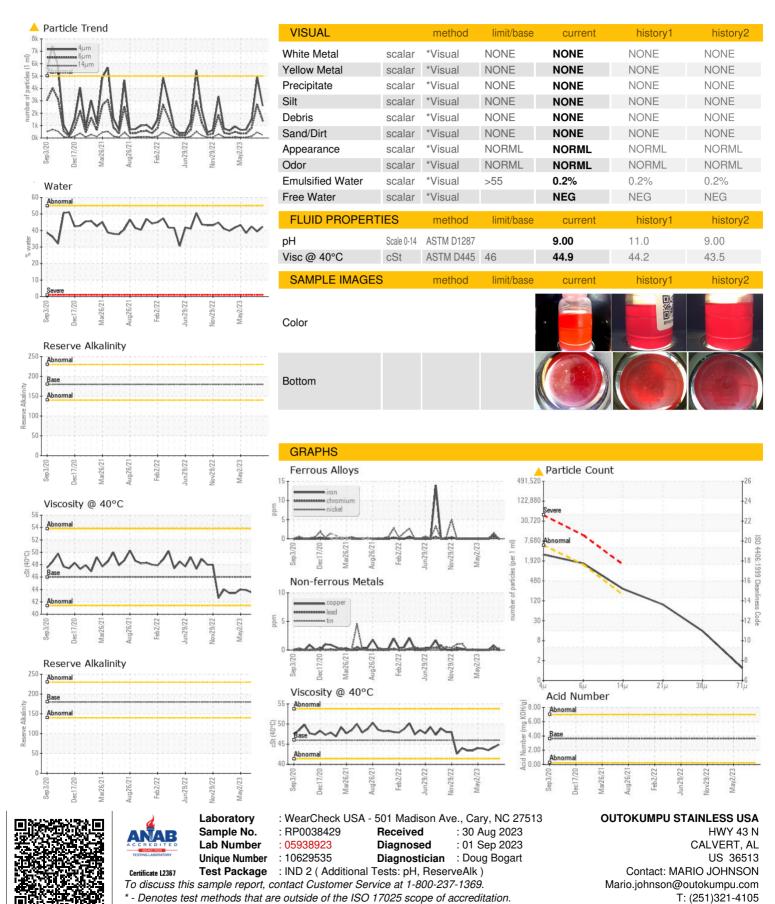
The pH level of this fluid is within the acceptable limits @ 9.0. The condition of the oil is acceptable for the time in service.



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Sample Number		Client Info		RP0038429	RP0035404	RP0035156
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				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	1	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	2	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	3	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	4	0
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	0	2	4
Calcium	ppm	ASTM D5185m	50	0	5	0
Phosphorus	ppm	ASTM D5185m	175	3	16	2
Zinc	ppm	ASTM D5185m	62	0	19	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	2	0
Sodium	ppm	ASTM D5185m		0	6	0
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Water	%	ASTM D6304	>55	42.3	39.4	42.4
ppm Water	ppm	ASTM D6304	>55000	423000	394000	424000
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2610	4933	1488
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>^</u> 2687	810
Particles >14µm		ASTM D7647	>160	<u>^</u> 242	△ 457	138
Particles >21µm		ASTM D7647	>40	A 82	<u>▲</u> 154	46
Particles >38µm		ASTM D7647	>10	1 3	<u> </u>	7
Particles >71µm		ASTM D7647	>3	1	<u>^</u> 2	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/18/15	1 9/19/16	18/17/14



OIL ANALYSIS REPORT



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

F: x: