

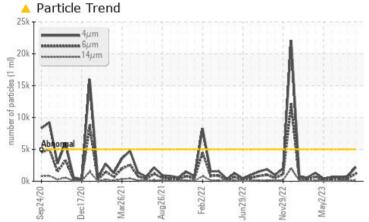
PROBLEM SUMMARY

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP CASTER MAIN HYDRAULIC UNIT (S/N 15-5000-0815-0020 Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (1585 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

-0020)	2000 Duc2020 Mud2011 Aug/2021 Feb/2022 June/2022 May/2023	

ISO

Sample Rating Trend

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Particles >14µm	ASTM D7647	>160	<u> </u>	73	63		
Particles >21µm	ASTM D7647	>40	<u> </u>	24	21		
Particles >38µm	ASTM D7647	>10	<u> </u>	4	3		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	17/16/13	17/16/13		

Customer Id: OUTCALAL Sample No.: RP0035563 Lab Number: 05938919 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> There are no recommended actions for this sample.

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 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.

28 Jun 2023 Diag: Jonathan Hester

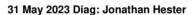


No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within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



view repor





of the oil is acceptable for the time in service.



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.



Report Id: OUTCALAL [WUSCAR] 05938919 (Generated: 09/02/2023 00:35:20) Rev: 1



OIL ANALYSIS REPORT

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP CASTER MAIN HYDRAULIC UNIT (S/N 15-5000-0815-0020) Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (1585 GAL)

DIAGNOSIS

A Recommendation

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

Wear

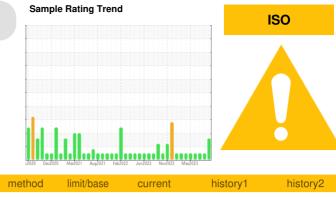
All component wear rates are normal.

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.



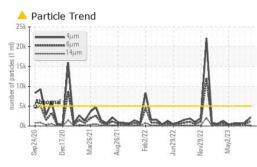
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035563	RP0035482	RP0035147
Sample Date		Client Info		29 Aug 2023	26 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	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	<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	0	0	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	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	1	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	0	0	3
Calcium	ppm	ASTM D5185m	50	0	0	0
Phosphorus	ppm	ASTM D5185m	175	5	5	3
Zinc	ppm	ASTM D5185m	62	2	10	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	0
Sodium	ppm	ASTM D5185m		0	12	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>55	44.2	42.4	42.9
ppm Water	ppm	ASTM D6304	>55000	442000	424000	429000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2192	783	679
Particles >6µm		ASTM D7647	>1300	1194	427	370
Particles >14µm		ASTM D7647	>160	<u> </u>	73	63
Particles >21µm		ASTM D7647	>40	<u> </u>	24	21
Particles >38µm		ASTM D7647	>10	A 11	4	3
Particles >71µm		ASTM D7647	-3	4	0	0
r anioics >r τμπ		ASTIVI D7047	>0	1	0	0

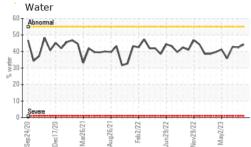


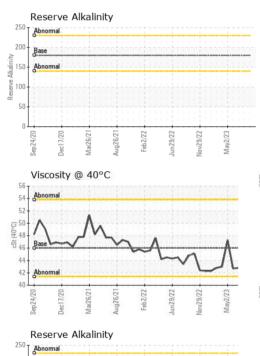
OIL ANALYSIS REPORT

method

VISUAL







200

150 A

50

Sep24/20

Mar26/7

Alkalinih

eserve 100

Bas

White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>55	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		mathad	limit/hooo	ourroat	biotom	biotony
	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	11.0	9.00
Visc @ 40°C	cSt	ASTM D445	46	43.5	43.3	42.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

limit/base

current

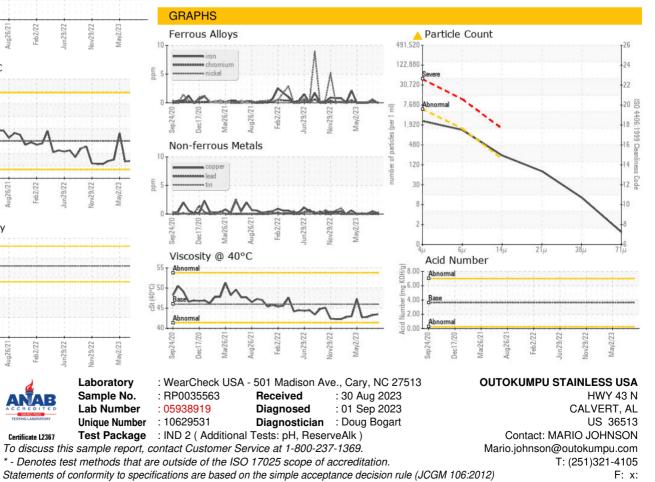


history1

history2

Bottom

Color



Submitted By: DALE ROBINSON