

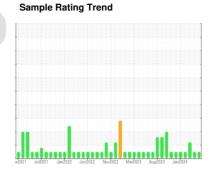
# **OIL ANALYSIS REPORT**

# **MELT SHOP - HYDRAULIC**

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

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (1585 GAL)





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

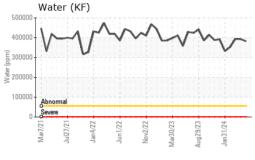
### **Fluid Condition**

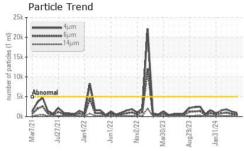
The pH level of this fluid is within the acceptable limits at 10.0. The condition of the oil is acceptable for the time in service.

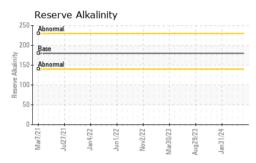
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	IATION		IIIIII/Dase	RP0044043	· · · · · · · · · · · · · · · · · · ·	•
Sample Number		Client Info			RP0039058	RP0042712
Sample Date Machine Age	hrs	Client Info		06 Jun 2024 0	09 May 2024 0	28 Mar 2024 0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1113	Client Info		N/A	N/A	N/A
Sample Status		Oliciti iiilo		NORMAL	NORMAL	ATTENTION
·						
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	4
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>20	0	0	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	11
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	4
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	5	<1	<1	<1
Calcium	ppm	ASTM D5185m	50	0	0	6
Phosphorus	ppm	ASTM D5185m	175	5	0	6
Zinc	ppm	ASTM D5185m	62	5	15	4
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	3
Sodium	ppm	ASTM D5185m		<1	0	45
Potassium	ppm	ASTM D5185m	>20	<1	<1	7
Water	%	ASTM D6304	>55	38.2	39.3	39.4
ppm Water	ppm	ASTM D6304	>55000	382000	393000	394000
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	931	1235	1801
Particles >6µm		ASTM D7647	>1300	507	673	981
Particles >14µm		ASTM D7647	>160	86	115	<b>167</b>
Particles >21µm		ASTM D7647	>40	29	39	<b>56</b>
Particles >38µm		ASTM D7647	>10	4	6	9
		AOTAA DZO4Z	0	_	4	4
Particles >71μm		ASTM D7647	>3	0	1	1

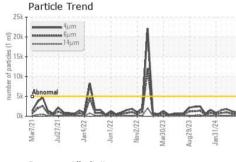


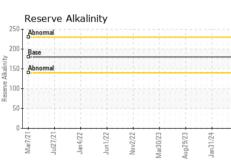
# **OIL ANALYSIS REPORT**











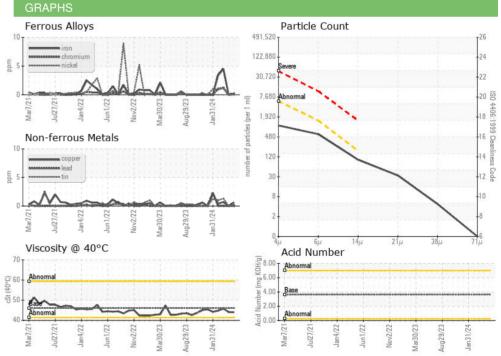
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>55	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	44.0	44.1	45.8

SAMPLE IMAGES	method	
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Color

**Bottom** 







Certificate 12367

Laboratory Sample No.

Unique Number : 11070897

: RP0044043

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Lab Number : 06203436 **Tested** 

: 13 Jun 2024 : 13 Jun 2024 - Angela Borella Diagnosed

: 07 Jun 2024

Test Package : IND 2 ( Additional Tests: pH, ReserveAlk ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**OUTOKUMPU STAINLESS USA** 

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Submitted By: DALE ROBINSON