

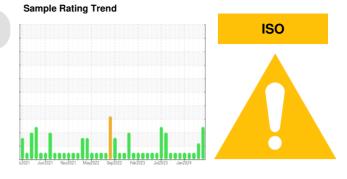
# **OIL ANALYSIS REPORT**

# **MELT SHOP - HYDRAULIC**

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

Hydraulic System

**FIRE-RESISTANT FLUID ISO 46 (66 GAL)** 



# **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

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

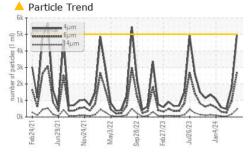
### Fluid Condition

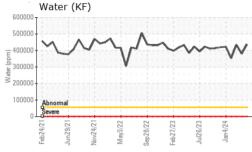
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

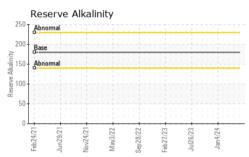
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039063	RP0042696	RP0042615
Sample Date		Client Info		09 May 2024	28 Mar 2024	05 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	2	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	7	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
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	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	2	2
Calcium	ppm	ASTM D5185m	50	0	7	1
Phosphorus	ppm	ASTM D5185m	175	0	4	4
Zinc	ppm	ASTM D5185m	62	9	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	2	0
Sodium	ppm	ASTM D5185m		0	14	0
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
Water					<u> </u>	
VValor	%	ASTM D6304	>55	43.6	38.0	43.5
ppm Water	% ppm	ASTM D6304 ASTM D6304	>55 >55000			43.5 435000
	ppm			43.6	38.0	
ppm Water	ppm	ASTM D6304	>55000	43.6 436000	38.0 380000	435000
ppm Water FLUID CLEANLIN	ppm	ASTM D6304 method	>55000 limit/base	43.6 436000 current	38.0 380000 history1	435000 history2
ppm Water FLUID CLEANLIN Particles >4μm	ppm	ASTM D6304  method  ASTM D7647	>55000 limit/base >5000	43.6 436000 current 4959	38.0 380000 history1 1775	435000 history2 479
ppm Water  FLUID CLEANLIN  Particles >4μm  Particles >6μm	ppm	Method ASTM D7647 ASTM D7647	>55000 limit/base >5000 >1300 >160	43.6 436000 current 4959 2701	38.0 380000 history1 1775 967	435000 history2 479 261
ppm Water  FLUID CLEANLIN  Particles >4µm  Particles >6µm  Particles >14µm	ppm	ASTM D6304  method  ASTM D7647  ASTM D7647  ASTM D7647	>55000 limit/base >5000 >1300 >160	43.6 436000 current 4959 \$\triangle 2701 \$\triangle 460	38.0 380000 history1 1775 967 165	435000 history2 479 261 44
ppm Water  FLUID CLEANLIN  Particles >4μm  Particles >6μm  Particles >14μm  Particles >21μm	ppm	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>55000 limit/base >5000 >1300 >160 >40 >10	43.6 436000 current 4959 ▲ 2701 ▲ 460 ▲ 155	38.0 380000 history1 1775 967 165 55	435000 history2 479 261 44

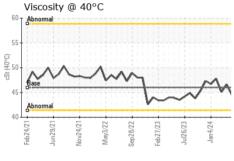


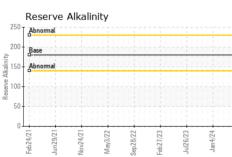
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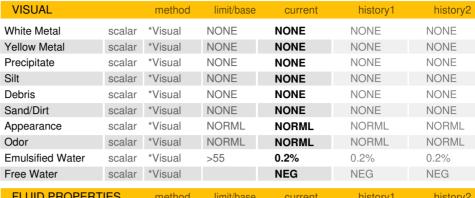












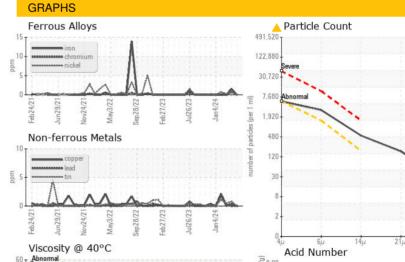
FLUID PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	9.00	10.0
Visc @ 40°C	cSt	ASTM D445	46	44.5	46.6	45.1

SAMPLE IMAGES	method	limit/base



**Bottom** 









Lab Number : 06175585

Laboratory Sample No.

Unique Number : 11021638

: RP0039063

cSt (40°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 10 May 2024 **Tested** Diagnosed

: 16 May 2024 : 16 May 2024 - Jonathan Hester

4.00 ₹ 2.00

Test Package : IND 2 (Additional Tests: pH, ReserveAlk) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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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F: x: