

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

### Sample Rating Trend

## NORMAL

# MELT SHOP - HYDRAULIC

MELT SHOP EAF MAIN HYDRAULIC UNIT (S/N 15-2000-0815-0010)

Component

**Tank Hydraulic System** 

**FIRE-RESISTANT FLUID ISO 46 (1585 GAL)** 

# DIAGNOSIS

#### Recommendation

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

#### Wear

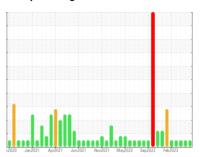
All component wear rates are normal.

#### Contamination

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

#### **Fluid Condition**

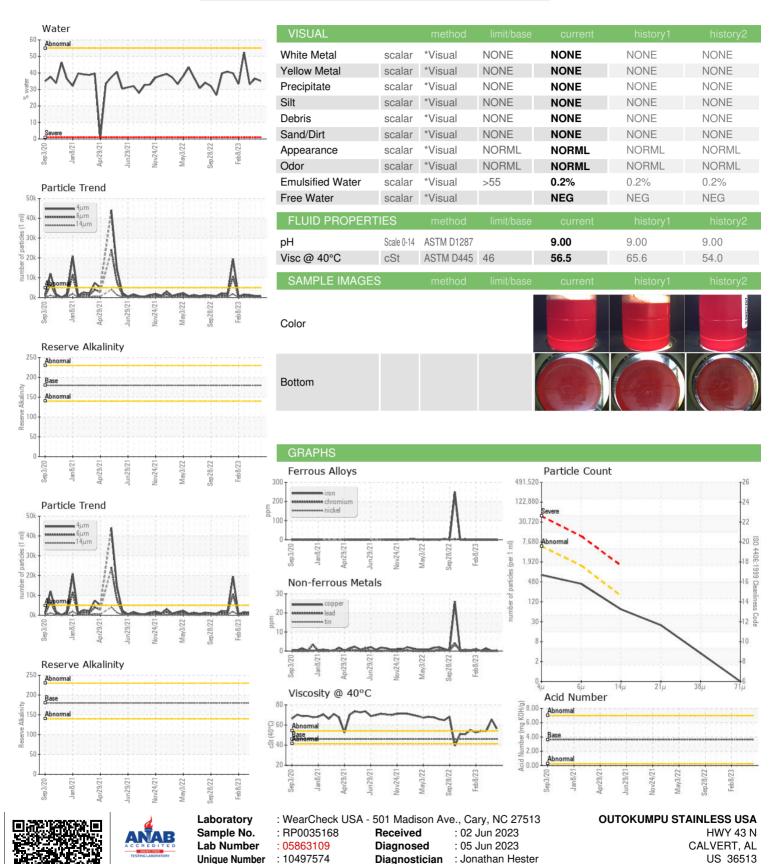
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.



Sample Number		Client Info		RP0035168	RP0034596	RP0030526
Sample Date		Client Info		31 May 2023	02 May 2023	30 Mar 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>20	0	6	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	1
Tin	ppm	ASTM D5185m	>20	0	0	0
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	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	5	0	4	<1
Calcium	ppm	ASTM D5185m	50	0	0	<1
Phosphorus	ppm	ASTM D5185m	175	4	<1	61
Zinc	ppm	ASTM D5185m	62	0	0	13
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>55	35.1	36.5	33.1
ppm Water	ppm	ASTM D6304	>55000	351000	365000	331000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	679	861	1314
Particles >6µm		ASTM D7647	>1300	370	469	716
Particles >14µm		ASTM D7647	>160	63	80	122
Particles >21µm		ASTM D7647	>40	21	27	41
Particles >38μm		ASTM D7647	>10	3	4	6
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	17/16/13	18/17/14



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Test Package : IND 2 (Additional Tests: pH, ReserveAlk)

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

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.



Certificate L2367

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