

OIL ANALYSIS REPORT

MELT SHOP - HYDRAULIC

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

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.

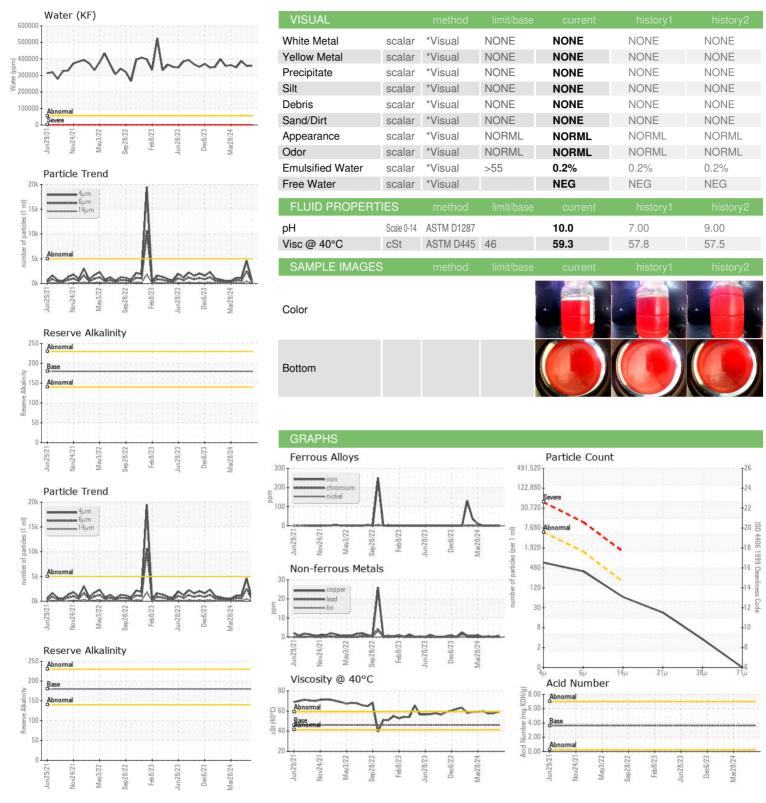
Fluid Condition

The pH level of this fluid is within the acceptable limits at 8.0. The condition of the oil is acceptable for the time in service.

.)		n2021 Nov20	21 May2022 Sep2022	Feb2023 Jun2023 Dec2023	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044034	RP0042703	RP0042751
Sample Date		Client Info		06 Jun 2024	09 May 2024	25 Apr 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				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	0	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	<1
Barium	ppm	ASTM D5185m	5	0	<1	1
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	<1	<1	1
Calcium	ppm	ASTM D5185m	50	0	0	<1
Phosphorus	ppm	ASTM D5185m	175	8	1	3
Zinc	ppm	ASTM D5185m	62	9	18	8
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>55	35.8	35.7	38.7
ppm Water	ppm	ASTM D6304		358000	357000	387000
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	609	4611	1070
Particles >6µm		ASTM D7647	>1300	332	<u>^</u> 2512	583
Particles >14µm		ASTM D7647	>160	56	<u>427</u>	99
Particles >21µm		ASTM D7647		19	<u> 144</u>	33
Particles >38µm		ASTM D7647	>10	3	<u>^</u> 22	5
Particles >71µm		ASTM D7647		0		1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/16/13	▲ 19/19/16	17/16/14
C Clouraniooo		.55 . 100 (0)	- 10/11/17	. 5, . 6, . 6		17,10,17



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: 06203429 Unique Number : 11070890

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0044034

Received : 07 Jun 2024 **Tested** : 13 Jun 2024 Diagnosed

: 13 Jun 2024 - Angela Borella 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. **OUTOKUMPU STAINLESS USA**

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

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

Report Id: OUTCALAL [WUSCAR] 06203429 (Generated: 06/14/2024 14:05:32) Rev: 1

Submitted By: DALE ROBINSON

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