

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



MELT SHOP - HYDRAULIC

MELT SHOP EAF-DE-SLAG HYDRAULIC UNIT (S/N 15-2000-0770)

Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (200 GAL)

DIAGNOSIS

Recommendation

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

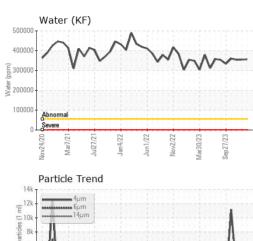
The pH level of this fluid is within the acceptable limits at 10.0. The condition of the oil is acceptable for the time in service.



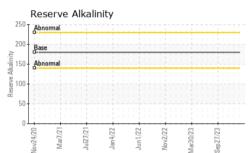
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Sample Number		Client Info		RP0039086	RP0038548	RP0035337
Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAD METALO			1221.//-		late to const	la la tarre O
WEAR METALS		method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	2	0	0
Copper	ppm	ASTM D5185m	>20	2	0	<1
Tin	ppm	ASTM D5185m	>20	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm		5	2	0	-
Manganese	ppm	ASTM D5185m	5	_	0	<1
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m	50	<1	0	0
Phosphorus	ppm	ASTM D5185m	175	3	0	2
Zinc	ppm	ASTM D5185m	62	6	1	0
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	4	0	<1
Water	%	ASTM D6304	>55	35.6	35.5	35.4
ppm Water	ppm	ASTM D6304	>55000	356000	355000	354000
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1340	3847	2662
Particles >6µm		ASTM D7647	>1300	730	△ 2096	1450
Particles >14µm		ASTM D7647	>160	124	△ 357	2 47
Particles >21µm		ASTM D7647		42	<u> </u>	8 3
Particles >38µm		ASTM D7647	>10	6	<u> </u>	1 3
Particles >71µm		ASTM D7647		1	<u>^</u> 2	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14	<u>→</u> 19/18/16	▲ 19/18/15
C. Clourinious		100 1700 (0)	- 10/11/1T	. 5, 11, 14		

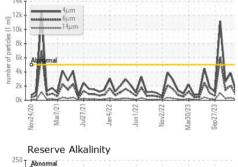


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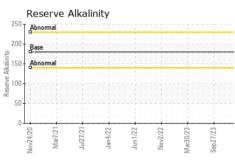


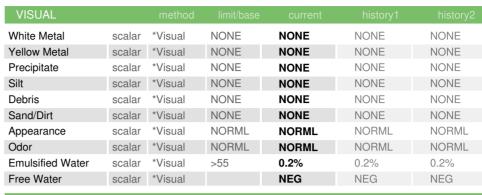
12k -		ım ım -µm				
10k - 8k - Akm						1
4k -	N A	1.	Λ.	^^	1	Al
2k	LA					





Particle Trend





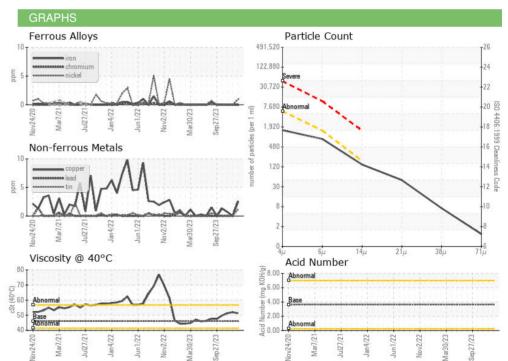
FLUID PROPERT	IES	method				history2
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.0
Visc @ 40°C	cSt	ASTM D445	46	51.3	52.0	51.3

SAMPLE IMAGES	method		

Color







: 01 Feb 2024

: 07 Feb 2024

: 07 Feb 2024 - Doug Bogart





Certificate L2367

Laboratory Sample No. Lab Number

: RP0039086 : 06077761

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

Tested Unique Number : 10859852 Diagnosed

Received

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)

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