

OIL ANALYSIS REPORT

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP EAF INLINE HEATER Component

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (5 GAL)

DIAGNOSIS

Recommendation

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

Wear

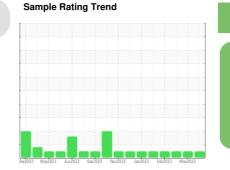
All component wear rates are normal.

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.



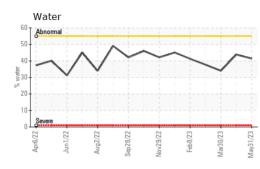


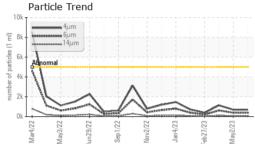
NORMAL

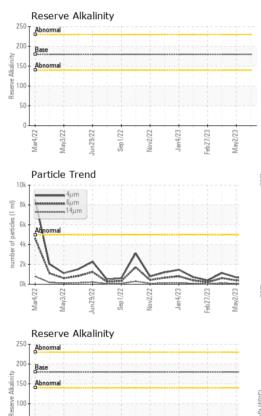
SAMPLE INFORM		method	limit/boos	ourroat	bieter 1	hiotomy
			limit/base	current	history1	history2
Sample Number		Client Info		RP0035173	RP0034603	RP0029659
Sample Date	la va	Client Info		31 May 2023	02 May 2023	30 Mar 2023
Machine Age Oil Age	hrs hrs	Client Info Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	0 N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
			11 11 11	-	-	-
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
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	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	6	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	0
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		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	4	<1
Calcium	ppm	ASTM D5185m	50	0	0	<1
Phosphorus	ppm	ASTM D5185m	175	3	1	63
Zinc	ppm	ASTM D5185m	62	0	0	8
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	41.4	43.8	34.0
ppm Water	ppm	ASTM D6304	>55000	414000	438000	340000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	699	693	1131
Particles >6µm		ASTM D7647	>1300	381	378	616
Particles >14µm		ASTM D7647	>160	65	64	105
Particles >21µm		ASTM D7647	>40	22	22	35
Particles >38µm		ASTM D7647	>10	3	3	5
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	17/16/13	17/16/14



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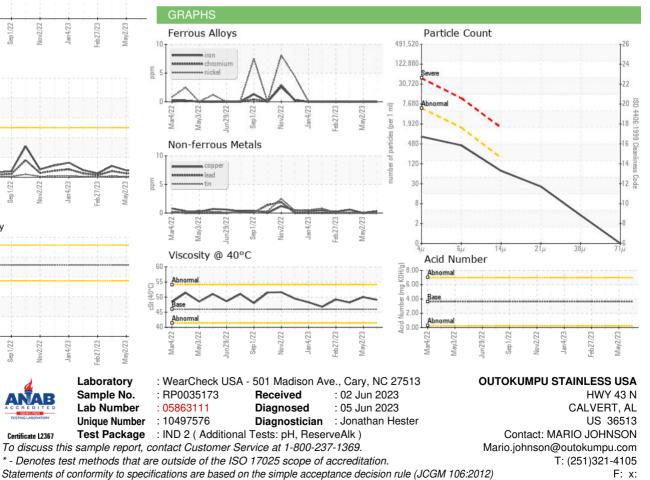
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>55	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	9.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	49.1	50.0	48.2
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



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