

OIL ANALYSIS REPORT

SAMPLE INFORMATION me

Sample Rating Trend

NORMAL

MELT SHOP - HYDRAULIC Machine Id MELT SHOP EAF INLINE HEATER

Component **Hydraulic System**

FIRE-RESISTANT FLUID ISO 46 (5 GAL)

Fluid System

DIAGNOSIS

Recommendation

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

Wear

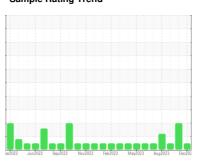
All component wear rates are normal.

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

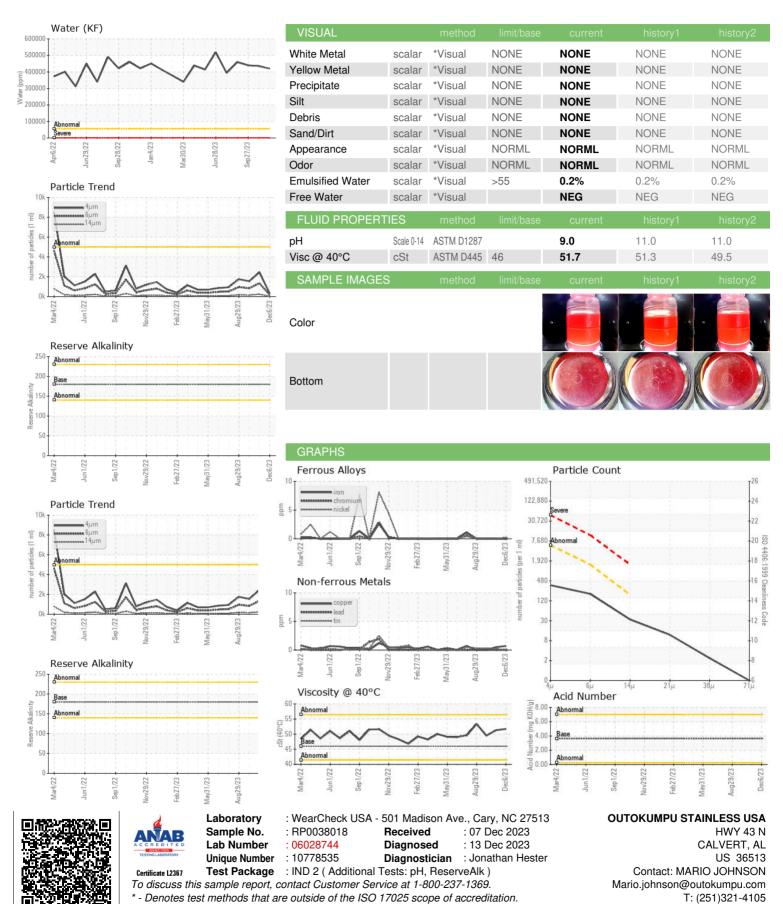
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038018	RP0039206	RP0034948
Sample Date		Client Info		06 Dec 2023	07 Nov 2023	27 Sep 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	ATTENTION	NORMAL
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	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	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	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	0	3
Calcium	ppm	ASTM D5185m	50	0	0	2
Phosphorus	ppm	ASTM D5185m	175	2	0	4
Zinc	ppm	ASTM D5185m	62	0	0	7
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>55	42.0	43.5	44.0
ppm Water	ppm	ASTM D6304	>55000	420000	435000	440000
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	313	2453	1531
Particles >6µm		ASTM D7647	>1300	171	<u>▲</u> 1336	834
Particles >14µm		ASTM D7647	>160	29	<u>227</u>	142
Particles >21µm		ASTM D7647	>40	10	<u> </u>	48
Particles >38µm		ASTM D7647	>10	2	<u> </u>	7
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/15/12	<u>▲</u> 18/18/15	18/17/14



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

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