

OIL ANALYSIS REPORT

Area MELT SHOP - HYDRAULIC Machine Id MELT SHOP CED VESSEL CART Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (290 QTS)

DIAGNOSIS

Recommendation

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

Wear

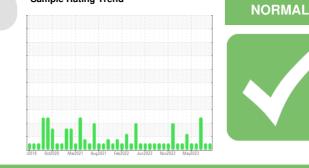
All component wear rates are normal.

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.

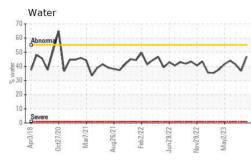


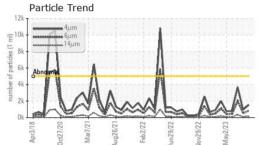
Sample Rating Trend

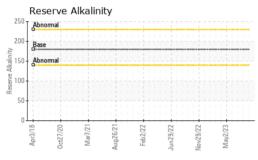
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038431	RP0035473	RP0035185
Sample Date		Client Info		29 Aug 2023	26 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	3	0
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	0	0	4
Calcium	ppm	ASTM D5185m	50	0	0	0
Phosphorus	ppm	ASTM D5185m	175	2	4	2
Zinc	ppm	ASTM D5185m	62	0	10	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	0
Sodium	ppm	ASTM D5185m		0	6	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>55	46.9	36.8	41.3
ppm Water	ppm	ASTM D6304	>55000	469000	368000	413000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1531	957	3680
Particles >6µm		ASTM D7647	>1300	834	521	<u> </u>
Particles >14µm		ASTM D7647	>160	142	89	4 341
Particles >21µm		ASTM D7647	>40	48	30	1 15
Particles >38µm		ASTM D7647	>10	7	5	1 8
Particles >71µm		ASTM D7647	>3	1	0	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14	17/16/14	▲ 19/18/16

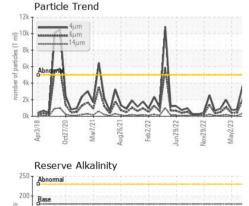


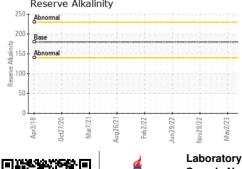
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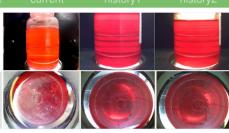


Certificate L2367

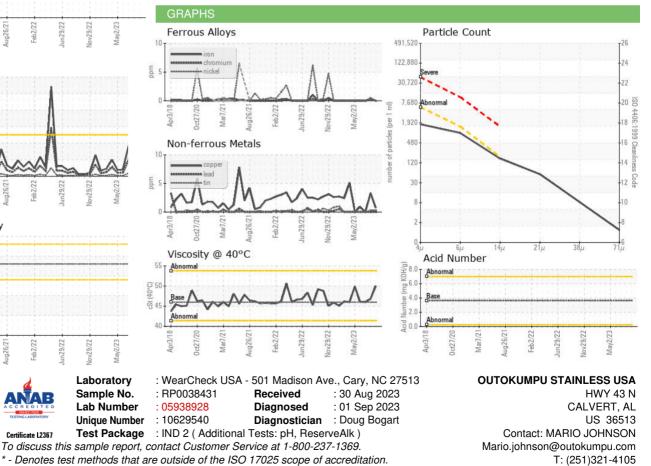
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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 PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	11.0	9.00
Visc @ 40°C	cSt	ASTM D445	46	50.0	46.8	46.0
SAMPLE IMAGES	3	method	limit/base	current	historv1	historv2

Color



Bottom



* - 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)

Submitted By: DALE ROBINSON

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