

## **OIL ANALYSIS REPORT**

**Oil Cleanliness** 

### MELT SHOP - HYDRAULIC MELT SHOP LSG LADLE SLIDE GATE (S/N 15-4000-0770) Component

**Hydraulic System** 

FIRE-RESISTANT FLUID ISO 46 (66 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.



Sample Rating Trend

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034919	RP0034601	RP0030524
Sample Date		Client Info		31 May 2023	02 May 2023	30 Mar 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	ATTENTION
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
Aluminum	ppm	ASTM D5185m	>20	0	6	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	2
Tin	ppm	ASTM D5185m	>20	0	0	0
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	0	0
Magnesium	ppm	ASTM D5185m	5	0	4	0
Calcium	ppm	ASTM D5185m	50	0	0	<1
Phosphorus	ppm	ASTM D5185m	175	2	1	60
Zinc	ppm	ASTM D5185m	62	0	0	7
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	40.8	38.2	37.7
ppm Water	ppm	ASTM D6304	>55000	408000	382000	377000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	738	1122	1992
Particles >6µm		ASTM D7647	>1300	402	611	1085
Particles >14µm		ASTM D7647	>160	68	104	<b>1</b> 85
Particles >21µm		ASTM D7647	>40	23	35	<b>▲</b> 62
Particles >38µm		ASTM D7647	>10	4	5	10
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Cleanliness		100 1106 (a)	10/17/14	17/16/12	17/10/14	10/17/15

ISO 4406 (c) >19/17/14

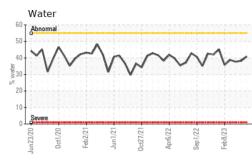
17/16/13

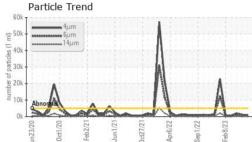
▲ 18/17/15

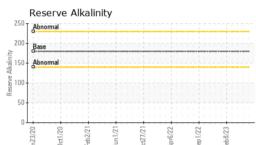
17/16/14

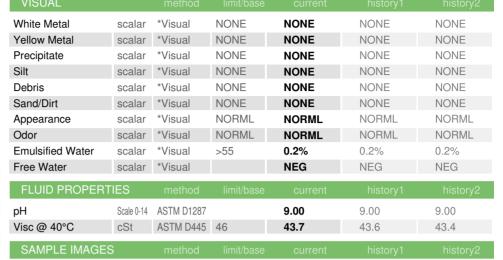


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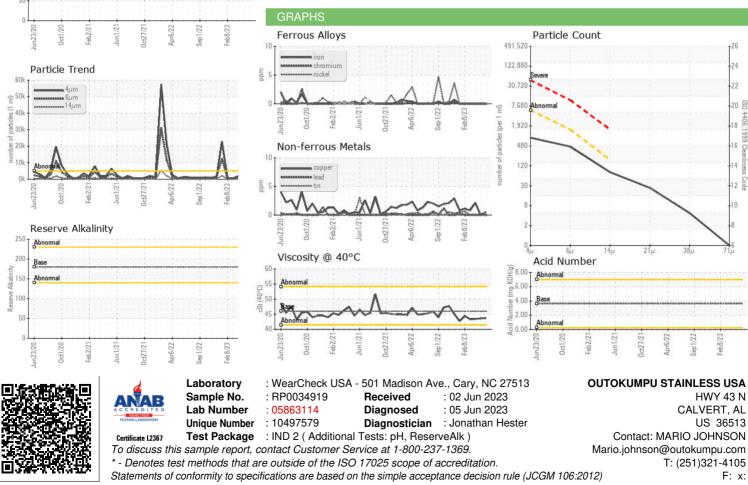






Bottom

Color



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