

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

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

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (66 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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

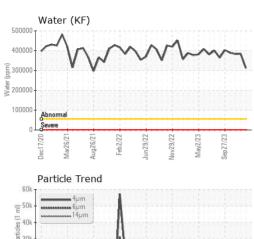
The pH level of this fluid is within the acceptable limits at 10.0. The condition of the oil is acceptable for the time in service.



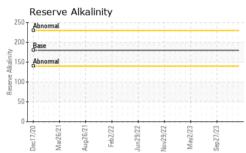
Sample Number		Client Info		RP0039320	RP0038547	RP0038068
Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	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	<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	3	<1	1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	1	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	<1	0	0
Manganese	ppm	ASTM D5185m		2	0	<1
Magnesium	ppm	ASTM D5185m	5	<1	0	<1
Calcium	ppm	ASTM D5185m	50	<1	0	0
Phosphorus	ppm	ASTM D5185m	175	3	0	3
Zinc	ppm	ASTM D5185m	62	4	4	0
CONTAMINANTS	8	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	31.2	38.4	38.3
ppm Water	ppm	ASTM D6304	>55000	312000	384000	383000
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1488	644	818
Particles >6µm		ASTM D7647	>1300	810	351	445
Particles >14µm		ASTM D7647	>160	138	60	76
Particles >21µm		ASTM D7647	>40	46	20	26
Particles >38µm		ASTM D7647	>10	7	3	4
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14	17/16/13	17/16/13

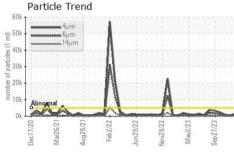


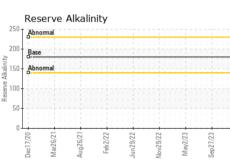
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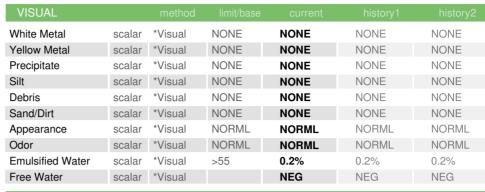


50k -	4µ 4µ 6µ	m m um	1				
30k - 30k - 10k - At			A				
20k -					- 1		
10k - At	normal		11		A		
0k L	12/9	6/21	7277	3/22	72/6	2/23	1/23
Dec17	Mar26,	Aug26/	Feb2/	Jun29,	Nov29,	à	Sep27/









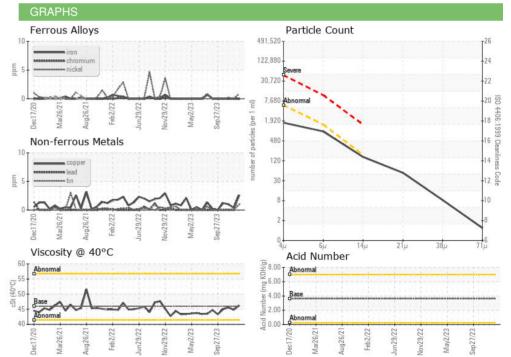
FLUID PROPERT	TES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.0
Visc @ 40°C	cSt	ASTM D445	46	46.2	44.8	45.6

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Color

Bottom









Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10859853

: RP0039320 : 06077762

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

Tested Diagnosed

: 01 Feb 2024 : 07 Feb 2024

: 07 Feb 2024 - Doug Bogart

Test Package: IND 2 (Additional Tests: pH, ReserveAlk) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

OUTOKUMPU STAINLESS USA

* - 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) HWY 43 N

US 36513

CALVERT, AL