

OIL ANALYSIS REPORT

Sample Rating Trend



Area

MELT SHOP - HYDRAULIC

MELT SHOP LADLE WALL SLIDE GATE HYDRAULIC UNIT (S/N 15-3000-0470)

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (66 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

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.

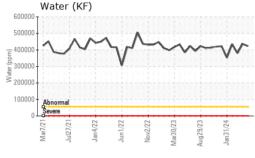
Fluid Condition

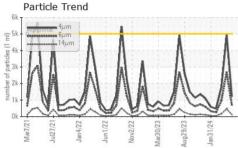
The pH level of this fluid is within the acceptable limits at 10.0. The condition of the oil is acceptable for the time in service.

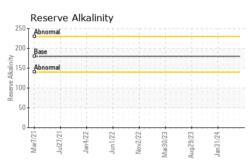
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SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044036	RP0039063	RP0042696
Sample Date		Client Info		06 Jun 2024	09 May 2024	28 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	2
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	7
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
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	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	5	0	<1	2
Calcium	ppm	ASTM D5185m	50	0	0	7
Phosphorus	ppm	ASTM D5185m	175	6	0	4
Zinc	ppm	ASTM D5185m	62	2	9	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	2
Sodium	ppm	ASTM D5185m		<1	0	14
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
Water	%	ASTM D6304	>55	42.3	43.6	38.0
ppm Water	ppm	ASTM D6304	>55000	423000	436000	380000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1209	4959	1775
Particles >6µm		ASTM D7647	>1300	659	<u>^</u> 2701	967
Particles >14µm		ASTM D7647	>160	112	<u>▲</u> 460	165
Particles >21µm		ASTM D7647		38	<u> </u>	55
Particles >38µm		ASTM D7647	>10	6	<u>^</u> 24	9
Particles >71µm		ASTM D7647		1	<u>^</u> 2	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/17/14	▲ 19/19/16	18/17/15
On Oleanilliess		100 4400 (C)	/13/11/14	17/17/14	- 13/13/10	10/17/13

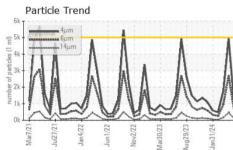


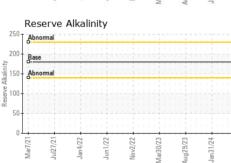
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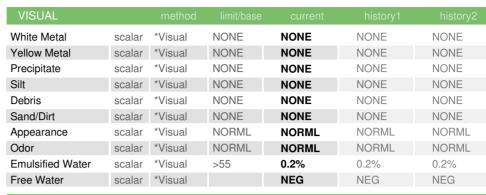












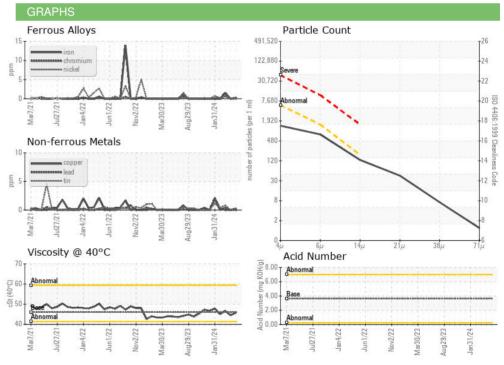
FLUID PROPERT	IES	method				history2
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	45.8	44.5	46.6

SAMPLE IMAGES me	ethod limit/base		ory1 history2
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Color











Lab Number

Laboratory Sample No.

: RP0044036 : 06203437 Unique Number : 11070898

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024 **Tested** : 13 Jun 2024

Diagnosed : 13 Jun 2024 - Angela Borella Test Package : IND 2 (Additional Tests: pH, ReserveAlk)

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

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

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

Report Id: OUTCALAL [WUSCAR] 06203437 (Generated: 06/14/2024 14:07:02) Rev: 1

Submitted By: DALE ROBINSON

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