

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

MELT SHOP - HYDRAULIC

MELT SHOP LADLE WALL LADLE PREHEATER HYDRAULIC UNIT (S/N 15-3000-0741-0020)

Component

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (20 GAL)

DIAGNOSIS

Recommendation

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.

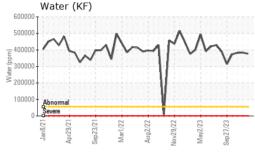
Fluid Condition

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

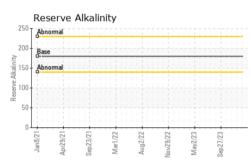
n2021 Apr2021 Sep2021 Mer2022 Aurg2022 Mer2023 Mer2023 Sep2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039214	RP0038641	RP0038013
Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	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	<1	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	3	0	0
Copper	ppm	ASTM D5185m	>20	3	0	2
Tin	ppm	ASTM D5185m	>20	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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	<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	4	1	8
Zinc	ppm	ASTM D5185m	62	7	1	0
CONTAMINANTS	;	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	37.7	38.4	38.2
ppm Water	ppm	ASTM D6304	>55000	377000	384000	382000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1131	513	1131
Particles >6µm		ASTM D7647	>1300	616	280	616
Particles >14µm		ASTM D7647	>160	105	48	105
Particles >21µm		ASTM D7647	>40	35	16	35
Particles >38µm		ASTM D7647	>10	5	2	5
Particles >71µm		ASTM D7647	>3	1	0	1

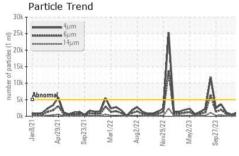


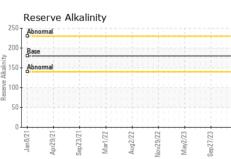
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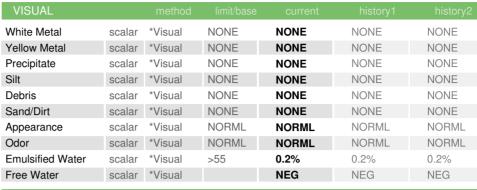


Ра 30k т	article T	rend						
≘ 25k -	навальная б <i>µ</i>	m m um			1			
of particle								
agunu 5k - Al	onormal		A				A	
Ok Lang/21	Apr29/21	Sep23/21	Mar1/22	Aug2/22	Nov29/22	May2/23	Sep27/23	hal.









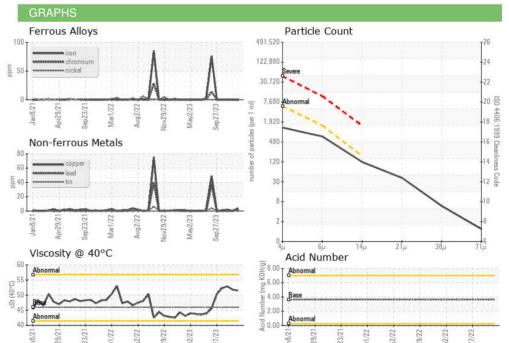
FLUID PROPERTIES		method	limit/base	current	history1	history2	
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.0	
Visc @ 40°C	cSt	ASTM D445	46	51.5	51.8	52.9	

SAMPLE IMAGES	method		

Color











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** : 10859854

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0039214

: 06077763

Received **Tested**

: 07 Feb 2024

: 01 Feb 2024

: 07 Feb 2024 - Doug Bogart Diagnosed Test Package: IND 2 (Additional Tests: pH, ReserveAlk)

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

* - 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)

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

T: (251)321-4105 F: x:

Report Id: OUTCALAL [WUSCAR] 06077763 (Generated: 02/07/2024 14:42:51) Rev: 1