

OIL ANALYSIS REPORT

Sample Rating Trend

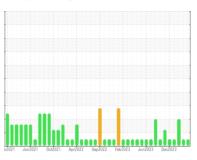
NORMAL

MELT SHOP - HYDRAULIC

MELT SHOP LTS DE SLAG HYDRAULIC UNIT (S/N 15-4000-0770)

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (200 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.

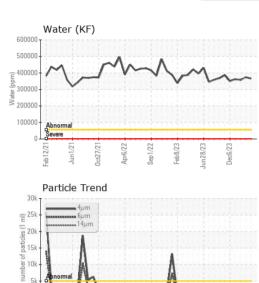
Fluid Condition

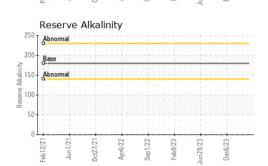
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

		b2021 Jun20	21 Oct2021 Apr2022	Sep2022 Feb2023 Jun2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042171	RP0042641	RP0039321
Sample Date		Client Info		28 Mar 2024	05 Mar 2024	31 Jan 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	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	6	<1
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>20	1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	12	10	<1
Lead	ppm	ASTM D5185m	>20	0	0	2
Copper	ppm	ASTM D5185m	>20	1	<1	4
Tin	ppm	ASTM D5185m	>20	1	1	2
Vanadium	ppm	ASTM D5185m		1	1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	4	1	0
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m	5	<1	<1	5
Calcium	ppm	ASTM D5185m	50	6	6	5
Phosphorus	ppm	ASTM D5185m	175	6	2	19
Zinc	ppm	ASTM D5185m	62	2	1	52
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	<1
Sodium	ppm	ASTM D5185m		46	37	3
Potassium	ppm	ASTM D5185m	>20	6	5	4
Water	%	ASTM D6304	>55	36.6	37.4	35.7
ppm Water	ppm	ASTM D6304	>55000	366000	374000	357000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	835	1636	2540
Particles >6µm		ASTM D7647	>1300	455	891	1384
Particles >14µm		ASTM D7647	>160	77	152	236
Particles >21µm		ASTM D7647	>40	26	51	9 79
Particles >38µm		ASTM D7647	>10	4	8	1 2
Particles >71μm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >19/17/14	0 17/16/13	1	1



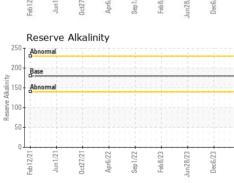
OIL ANALYSIS REPORT





Particle Trend

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VISUAL		method				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	NONE
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
ELLIIN DRODERT	TEC.	mothod	limit/bass	ourront	hiotonyi	history?

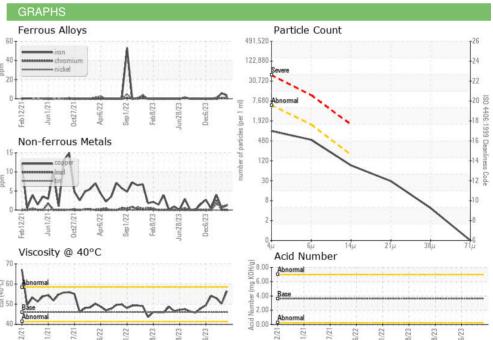
FLUID PROPERT	IES	method				history2
рН	Scale 0-14	ASTM D1287		9.00	10.0	10.0
Visc @ 40°C	cSt	ASTM D445	46	56.5	50.2	53.0

SAMPL	E IMA	GES	

Color

Bottom









Certificate L2367

Laboratory Sample No. Lab Number : 06134122 Unique Number: 10953587

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

: RP0042171

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.

Received **Tested**

Diagnosed Test Package: IND 2 (Additional Tests: pH, ReserveAlk)

: 03 Apr 2024

: 29 Mar 2024

: 03 Apr 2024 - Jonathan Hester

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

OUTOKUMPU STAINLESS USA

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

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

HWY 43 N

US 36513

CALVERT, AL