

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

MELT SHOP - HYDRAULIC **MELT SHOP LTS MAIN HYD (S/N 15-4000-0770)**

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (396 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

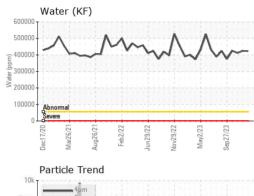
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.



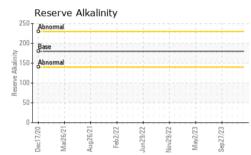
RP0038016 06 Dec 2023 0 0 N/A NORMAL	RP0038640	RP0039212		Client Info		Sample Number
0 0 N/A	04 Jan 2024	31 Jan 2024		Client Info		Sample Date
0 N/A	0	0		Client Info	hrs	Machine Age
N/A	0	0		Client Info	hrs	Oil Age
	N/A	N/A		Client Info	0	Oil Changed
THO THUS IE	ATTENTION	NORMAL				Sample Status
		_	11 11 //			
history2	history1	current	limit/base	method		WEAR METALS
0	0	0	>20	ASTM D5185m	ppm	Iron
0	0	0	>20	ASTM D5185m	ppm	Chromium
<1	0	<1	>20	ASTM D5185m	ppm	Nickel
0	0	0		ASTM D5185m	ppm	Titanium
0	0	<1		ASTM D5185m	ppm	Silver
0	0	<1	>20	ASTM D5185m	ppm	Aluminum
0	0	2	>20	ASTM D5185m	ppm	Lead
2	0	3	>20	ASTM D5185m	ppm	Copper
0	0	1	>20	ASTM D5185m	ppm	Tin
0	0	0		ASTM D5185m	ppm	Vanadium
<1	0	<1		ASTM D5185m	ppm	Cadmium
history2	history1	current	limit/base	method		ADDITIVES
0	0	0	5	ASTM D5185m	ppm	Boron
0	0	0	5	ASTM D5185m	ppm	Barium
0	0	<1	5	ASTM D5185m	ppm	Molybdenum
<1	0	2		ASTM D5185m	ppm	Manganese
1	0	1	5	ASTM D5185m	ppm	Magnesium
<1	0	1	50	ASTM D5185m	ppm	Calcium
6	0	3	175	ASTM D5185m	ppm	Phosphorus
<1	3	7	62	ASTM D5185m	ppm	Zinc
history2	history1	current	limit/base	method	3	CONTAMINANTS
<1	0	<1	>15	ASTM D5185m	ppm	Silicon
<1	0	2		ASTM D5185m	ppm	Sodium
1	<1	4	>20	ASTM D5185m	ppm	Potassium
41.2	42.4	42.3	>55	ASTM D6304	%	Water
412000	424000	423000	>55000	ASTM D6304	ppm	ppm Water
history2	history1	current	limit/base	method	NESS	FLUID CLEANLIN
826	3082	1279	>5000	ASTM D7647		Particles >4µm
450	1679	697	>1300	ASTM D7647		Particles >6µm
77	▲ 286	119	>160	ASTM D7647		•
				ASTM D7647		Particles >21µm
4		6	>10	ASTM D7647		Particles >38µm
		1				·
17/16/13	<u>2</u>		>19/17/14	ISO 4406 (c)		Oil Cleanliness
0 0 0 0 2 0 0 <1 histor 0 0 0 <1 1 <1 6 <1 +1 41.2 412000 histor 826 450 77 26 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 <1 <1 <2 <3 <1 <1 <2 <3 <1 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	>20 >20 >20 >20 >20 >20 limit/base 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	ppm	Silver Aluminum Lead Copper Tin Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >38µm Particles >71µm

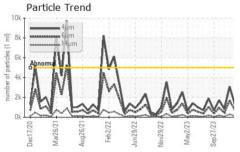


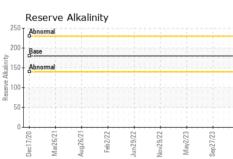
OIL ANALYSIS REPORT



8k - ***		um	1				
6k - Ab	norma V.	F-	M				
4k -	W		AI				
2k -	h V		M	1. 1	A	Λ.	1
					1 53		JAVAN







Vhite MetalscalarYellow Metalscalar	*Visual	NONE NONE	NONE NONE	NONE	NONE
ellow Metal scalar		NONE	NONE	NONE	
	*\/;		NONE	NONE	NONE
Precipitate scalar	visuai	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

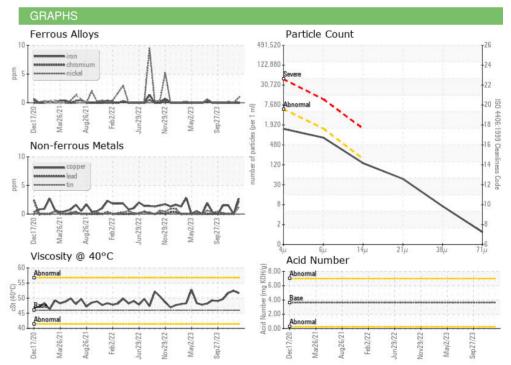
FLUID PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	9.00	9.0
Visc @ 40°C	cSt	ASTM D445	46	51.6	52.4	51.7

SAMPLE IMAGES method limit/base current

Color











Laboratory Sample No. Lab Number : 06077759 Unique Number : 10859850

: RP0039212

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

: 01 Feb 2024 **Tested** Diagnosed Test Package: IND 2 (Additional Tests: pH, ReserveAlk)

: 07 Feb 2024

: 07 Feb 2024 - Doug Bogart

CALVERT, AL US 36513 Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

OUTOKUMPU STAINLESS USA

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)

F: x:

T: (251)321-4105

HWY 43 N