

OIL ANALYSIS REPORT

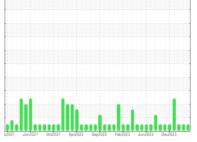
Sample Rating Trend



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.

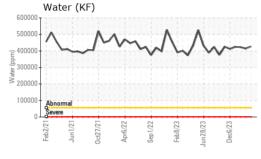
Fluid Condition

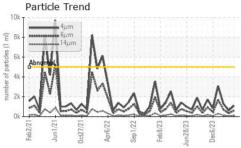
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

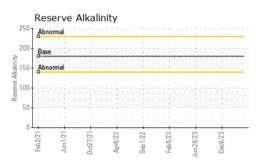
62021 Jun2021 Oct2021 Αρτ2022 Sep2022 Feb2023 Jun2023 Occ2023									
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		RP0035578	RP0042619	RP0039212			
Sample Date		Client Info		28 Mar 2024	05 Mar 2024	31 Jan 2024			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>20	6	6	0			
Chromium	ppm	ASTM D5185m	>20	1	1	0			
Nickel	ppm	ASTM D5185m	>20	1	<1	<1			
	ppm	ASTM D5185m		<1	0	0			
	ppm	ASTM D5185m		0	0	<1			
	ppm	ASTM D5185m		11	11	<1			
	ppm	ASTM D5185m	>20	0	0	2			
	ppm	ASTM D5185m	>20	1	1	3			
	ppm	ASTM D5185m	>20	1	1	1			
	ppm	ASTM D5185m		<1	<1	0 <1			
	ppm	ASTM D5185m		<1	<1	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	5	4	1	0			
	ppm	ASTM D5185m	5	0	0	0			
	ppm	ASTM D5185m	5	0	0	<1			
	ppm	ASTM D5185m	_	<1	0	2			
	ppm	ASTM D5185m	5	<1	<1	1			
	ppm	ASTM D5185m	50	6	6	1			
	ppm	ASTM D5185m	175	6 3	3	3 7			
	ppm	ASTM D5185m	62	3	4	7			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>15	3	2	<1			
Sodium	ppm	ASTM D5185m		35	34	2			
	ppm	ASTM D5185m	>20	7	8	4			
	%	ASTM D6304	>55	42.7	41.4	42.3			
• • • • • • • • • • • • • • • • • • • •	ppm	ASTM D6304	>55000	427000	414000	423000			
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2			
Particles >4μm		ASTM D7647	>5000	1096	618	1279			
Particles >6μm		ASTM D7647	>1300	597	336	697			
Particles >14μm		ASTM D7647	>160	102	57	119			
Particles >21µm		ASTM D7647		34	19	40			
Particles >38µm		ASTM D7647	>10	5	3	6			
Particles >71μm		ASTM D7647	>3	1	0	1			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/14	16/16/13	17/17/14			

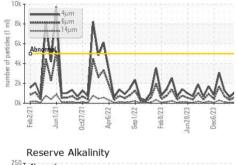


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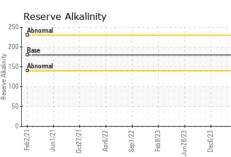


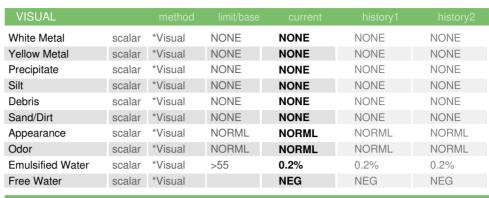






Particle Trend



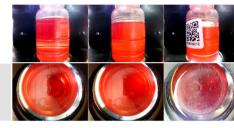


FLUID PROPERT	IES	method				history2
рН	Scale 0-14	ASTM D1287		9.00	8.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	51.1	50.1	51.6

SAMPLE IMAGES

Color

Bottom



GRAPHS Ferrous Alloys Particle Count 491.520 122.88 30,72 1 92 Non-ferrous Metals 120 Viscosity @ 40°C Acid Number cSt (40°C) 4.00 ₹ 2.00 P 0.00



Certificate L2367

Laboratory Sample No. Lab Number

: RP0035578 : 06134123

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

Received **Tested** Unique Number: 10953588

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

: 03 Apr 2024 : 03 Apr 2024 - Jonathan Hester

: 29 Mar 2024

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

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)

HWY 43 N

US 36513

F: x:

CALVERT, AL