

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



MELT SHOP - HYDRAULIC MELT SHOP CED VESSEL CART

Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (290 QTS)

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.

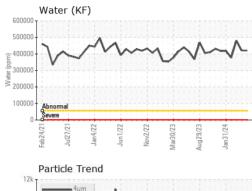
Fluid Condition

The pH level of this fluid is within the acceptable limits at 8.0. The condition of the oil is acceptable for the time in service.

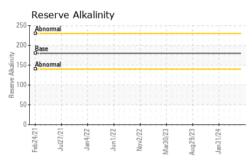
		02021	owner owner	TOTAL TRANSPORT TRANSPORT	out to	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044193	RP0042706	RP0042716
Sample Date		Client Info		06 Jun 2024	09 May 2024	28 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	6
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>20	<1	0	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	13
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	4	2	2
Tin	ppm	ASTM D5185m	>20	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	2
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	7
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	<1	1
Calcium	ppm	ASTM D5185m	50	0	2	7
Phosphorus	ppm	ASTM D5185m	175	10	5	7
Zinc	ppm	ASTM D5185m	62	11	23	12
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	4
Sodium	ppm	ASTM D5185m		<1	0	35
Potassium	ppm	ASTM D5185m	>20	<1	<1	11
Water	%	ASTM D6304	>55	42.0	42.1	48.0
ppm Water	ppm	ASTM D6304		420000	421000	480000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	418	2610	1201
Particles >6µm		ASTM D7647	>1300	227	1422	654
Particles >14µm		ASTM D7647	>160	39	242	111
Particles >21µm		ASTM D7647		13	82	37
Particles >38µm		ASTM D7647	>10	2	13	6
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/12	19/18/15	17/17/14
5 5.0a.m.1000		.55 1155 (0)	2 10/11/14	. 0, . 0, . 1	10/10/10	17/17/17

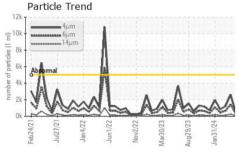


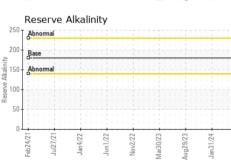
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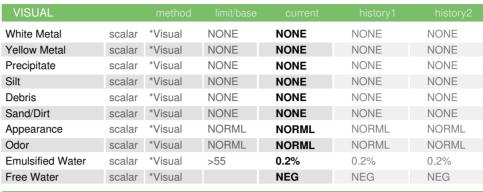


12k	4 ₁ 6 ₁ 14	ım ım µm	1				
8k - Abj	prmal						
2k N	W	~~/		1	M	A	M
Feb24/21	12/2	Jan 4/22	1/22	Nov2/22	Mar30/23	4ug29/23	an31/24









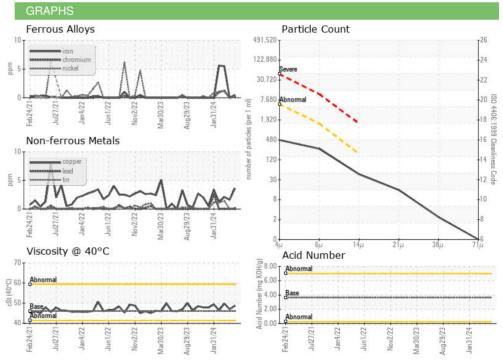
FLUID PROPERT	IES	method				history2
рН	Scale 0-14	ASTM D1287		10.0	9.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	48.7	47.0	49.8

SAMPLE IMAGES	method		history2

Color











Laboratory Sample No.

Lab Number : 06203427

: RP0044193 Unique Number : 11070888

: 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.

US 36513 Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

OUTOKUMPU STAINLESS USA

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

F: x:

HWY 43 N

CALVERT, AL