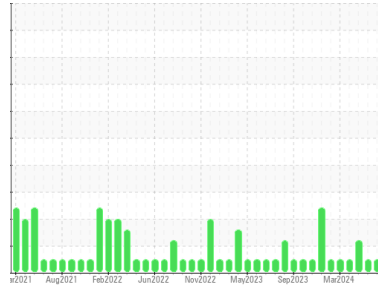




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

MELT SHOP - HYDRAULIC

Machine Id

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

Component

Tank Hydraulic System

Fluid

FIRE-RESISTANT FLUID ISO 46 (396 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 8.0. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0042062	RP0042753	RP0038049
Sample Date	Client Info		09 May 2024	25 Apr 2024	11 Apr 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	0	0
Chromium	ppm	ASTM D5185m	>20	0	0
Nickel	ppm	ASTM D5185m	>20	0	0
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>20	0	0
Lead	ppm	ASTM D5185m	>20	0	<1
Copper	ppm	ASTM D5185m	>20	<1	<1
Tin	ppm	ASTM D5185m	>20	0	<1
Vanadium	ppm	ASTM D5185m		0	<1
Cadmium	ppm	ASTM D5185m		0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0
Barium	ppm	ASTM D5185m	5	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	0
Manganese	ppm	ASTM D5185m		0	0
Magnesium	ppm	ASTM D5185m	5	<1	<1
Calcium	ppm	ASTM D5185m	50	0	<1
Phosphorus	ppm	ASTM D5185m	175	0	3
Zinc	ppm	ASTM D5185m	62	15	6

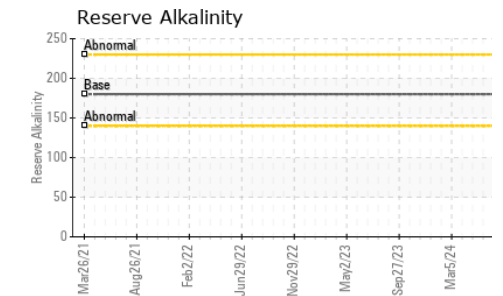
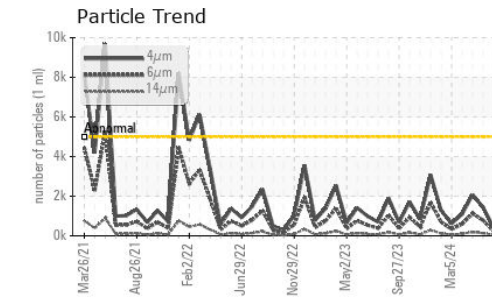
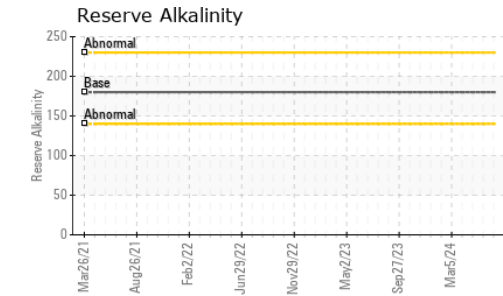
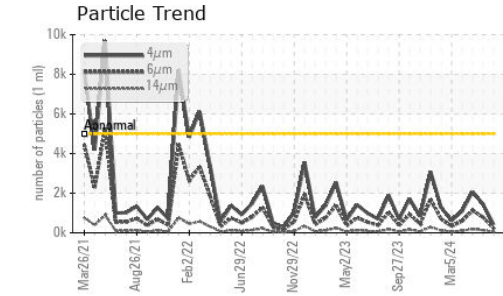
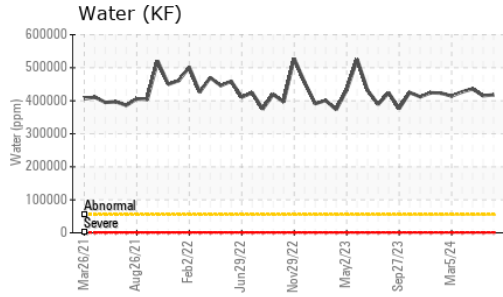
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1
Sodium	ppm	ASTM D5185m		0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1
Water	%	ASTM D6304	>55	41.8	41.5
ppm Water	ppm	ASTM D6304	>55000	418000	415000

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	418	1435	2071
Particles >6µm	ASTM D7647	>1300	227	782	1128
Particles >14µm	ASTM D7647	>160	39	133	192
Particles >21µm	ASTM D7647	>40	13	45	65
Particles >38µm	ASTM D7647	>10	2	7	10
Particles >71µm	ASTM D7647	>3	0	1	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/15/12	18/17/14	18/17/15

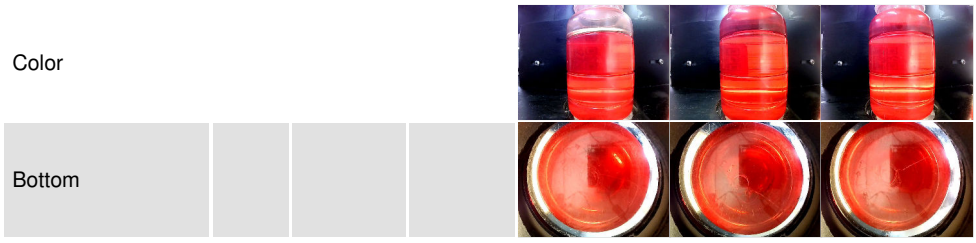
OIL ANALYSIS REPORT



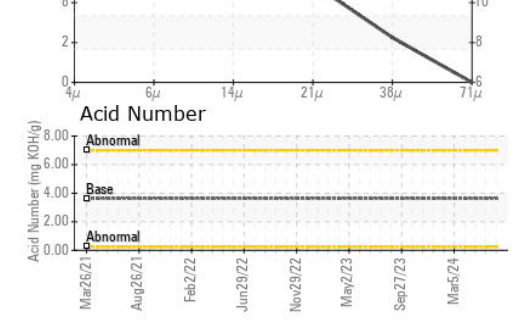
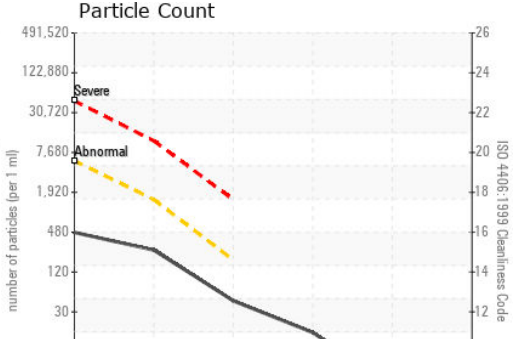
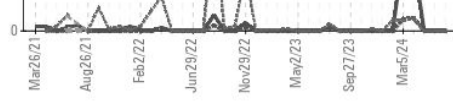
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>55	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287	8.00	9.00	8.00
Visc @ 40°C	cSt	ASTM D445	46	51.6	50.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0042062 **Received** : 10 May 2024
Lab Number : 06175583 **Tested** : 16 May 2024
Unique Number : 11021636 **Diagnosed** : 16 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: pH, ReserveAlk)

OUTOKUMPU STAINLESS USA
 HWY 43 N
 CALVERT, AL
 US 36513
 Contact: MARIO JOHNSON
 Mario.johnson@outokumpu.com
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 F: x:

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)