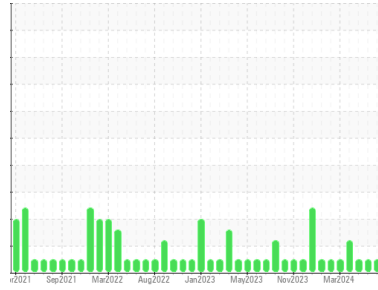




OIL ANALYSIS REPORT

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	RP0044187	RP0042062	RP0042753
Sample Date	Client Info	06 Jun 2024	09 May 2024	25 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	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<1	0	0
Chromium ppm ASTM D5185m	>20	<1	0	0
Nickel ppm ASTM D5185m	>20	<1	0	0
Titanium ppm ASTM D5185m		<1	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>20	2	0	0
Lead ppm ASTM D5185m	>20	0	0	<1
Copper ppm ASTM D5185m	>20	2	<1	<1
Tin ppm ASTM D5185m	>20	<1	0	<1
Vanadium ppm ASTM D5185m		0	0	<1
Cadmium ppm ASTM D5185m		<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	5	0	0	0
Barium ppm ASTM D5185m	5	0	0	<1
Molybdenum ppm ASTM D5185m	5	0	0	0
Manganese ppm ASTM D5185m		<1	0	0
Magnesium ppm ASTM D5185m	5	2	<1	<1
Calcium ppm ASTM D5185m	50	0	0	<1
Phosphorus ppm ASTM D5185m	175	10	0	3
Zinc ppm ASTM D5185m	62	21	15	6

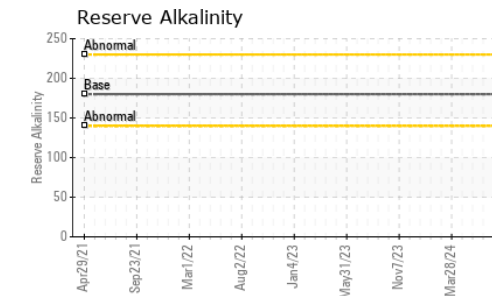
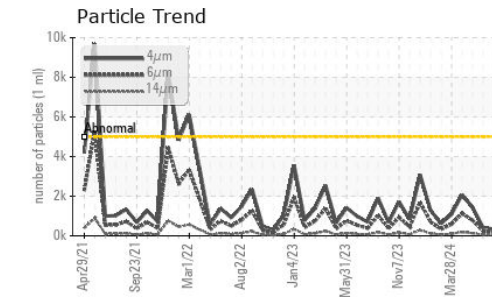
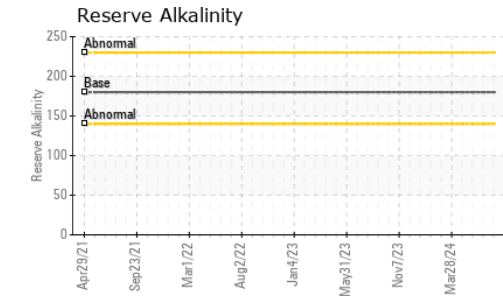
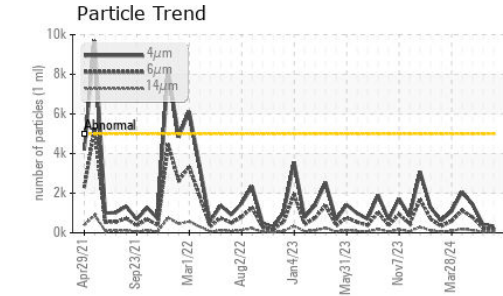
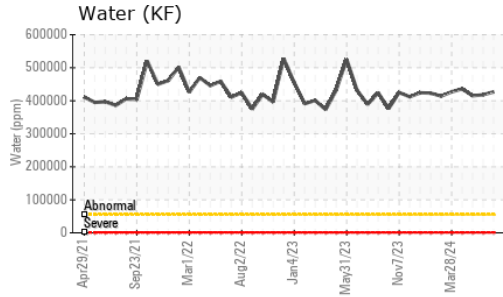
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<1	<1	<1
Sodium ppm ASTM D5185m		<1	0	0
Potassium ppm ASTM D5185m	>20	<1	<1	<1
Water % ASTM D6304	>55	42.7	41.8	41.5
ppm Water ppm ASTM D6304	>55000	427000	418000	415000

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	339	418	1435
Particles >6µm ASTM D7647	>1300	185	227	782
Particles >14µm ASTM D7647	>160	31	39	133
Particles >21µm ASTM D7647	>40	11	13	45
Particles >38µm ASTM D7647	>10	2	2	7
Particles >71µm ASTM D7647	>3	0	0	1
Oil Cleanliness ISO 4406 (c)	>19/17/14	16/15/12	16/15/12	18/17/14

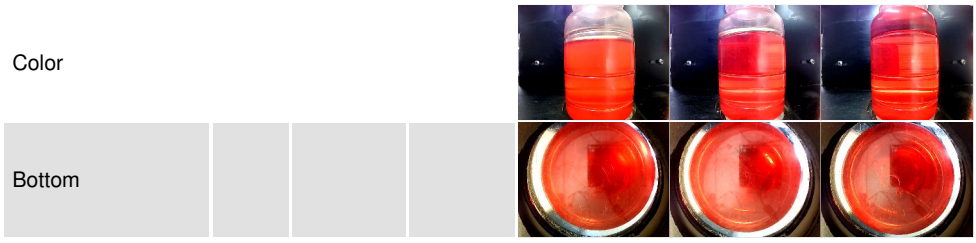
OIL ANALYSIS REPORT



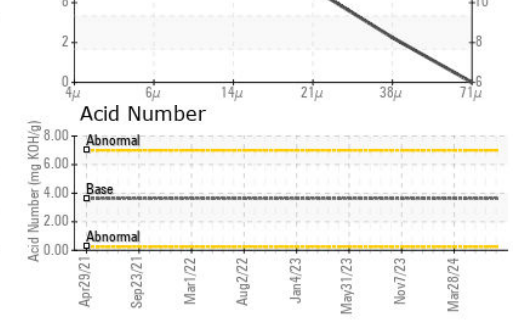
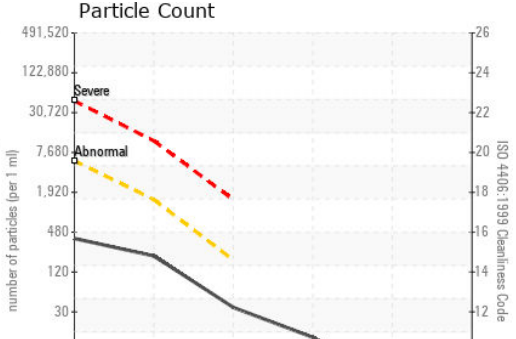
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	9.00	8.00	9.00
Visc @ 40°C	cSt	ASTM D445	46	50.1	47.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044187 **Received** : 07 Jun 2024
Lab Number : 06203426 **Tested** : 13 Jun 2024
Unique Number : 11070887 **Diagnosed** : 13 Jun 2024 - Angela Borella
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
 T: (251)321-4105
 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)