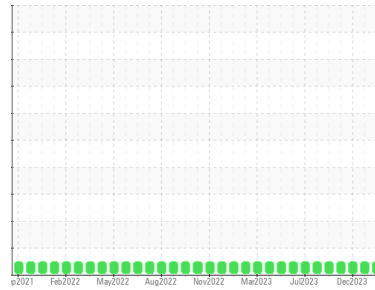




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
UTILITIES
 Machine Id
FILTRATION SYSTEM
 Component
Hydraulic System
 Fluid
FIRE-RESISTANT FLUID ISO 46 (--- 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0039345	RP0038378	RP0034992
Sample Date	Client Info	29 Jan 2024	04 Jan 2024	05 Dec 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	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	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>20	0	1
Lead	ppm	ASTM D5185m	>20	0	0
Copper	ppm	ASTM D5185m	>20	0	0
Tin	ppm	ASTM D5185m	>20	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	5	0	0
Barium	ppm	ASTM D5185m	5	0	10
Molybdenum	ppm	ASTM D5185m	5	0	<1
Manganese	ppm	ASTM D5185m		<1	0
Magnesium	ppm	ASTM D5185m	5	0	<1
Calcium	ppm	ASTM D5185m	50	46	53
Phosphorus	ppm	ASTM D5185m	175	314	338
Zinc	ppm	ASTM D5185m	62	386	441

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	0	1
Water	%	ASTM D6304	>55	0.006	0.005
ppm Water	ppm	ASTM D6304	>55000	66	54

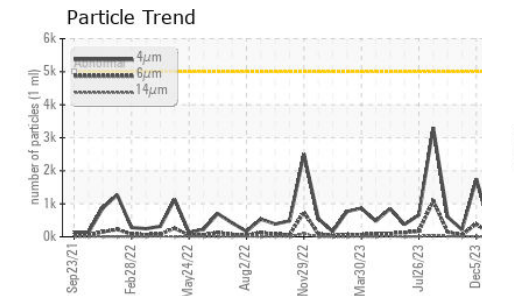
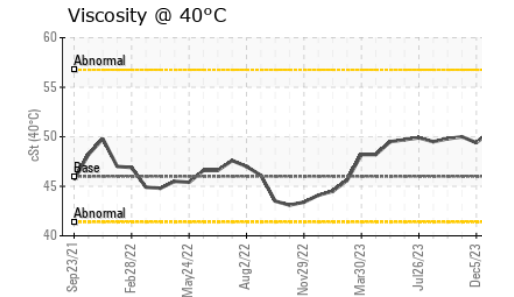
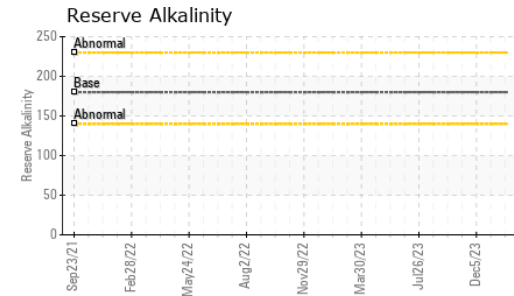
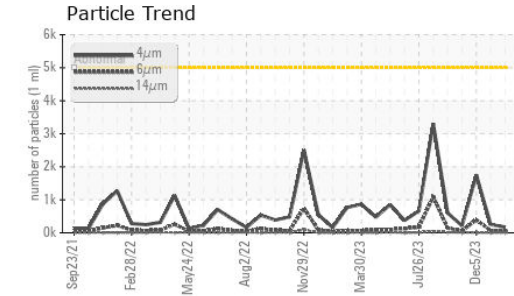
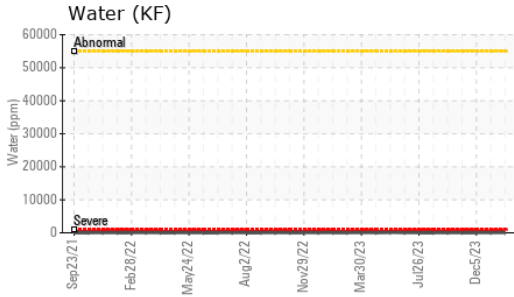
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	174	250
Particles >6µm	ASTM D7647	>1300	48	63
Particles >14µm	ASTM D7647	>160	6	6
Particles >21µm	ASTM D7647	>40	1	1
Particles >38µm	ASTM D7647	>10	0	0
Particles >71µm	ASTM D7647	>3	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/10	15/13/10

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	0.37	0.35

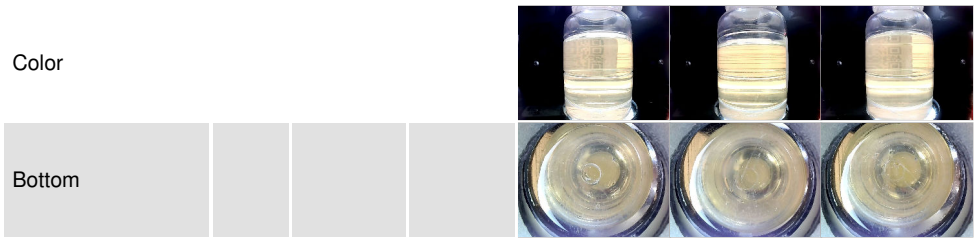
OIL ANALYSIS REPORT



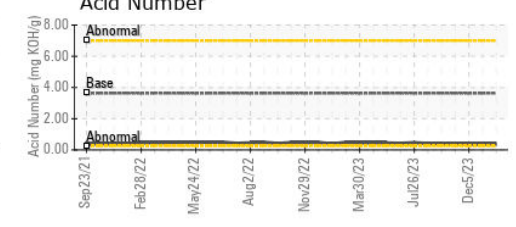
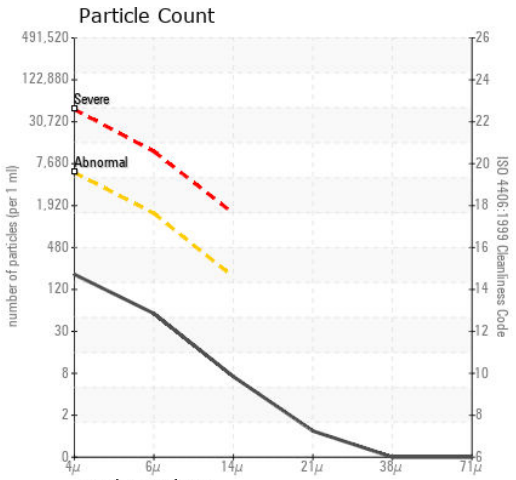
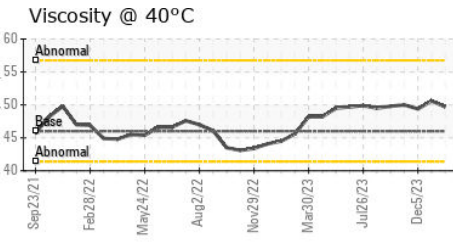
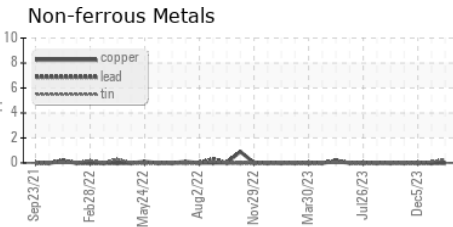
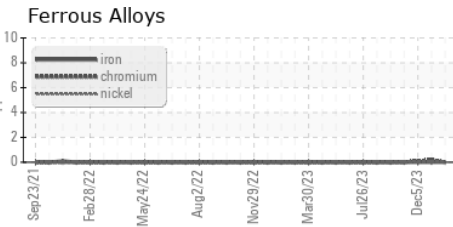
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	49.7	50.6	49.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039345 **Received** : 31 Jan 2024
Lab Number : 06075794 **Diagnosed** : 02 Feb 2024
Unique Number : 10857885 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: pH, ReserveAlk)

OUTOKUMPU STAINLESS USA
 HWY 43 N
 CALVERT, AL
 US 36513
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 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)