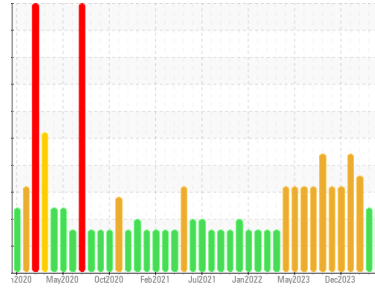




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
CRM64
 Machine Id
CRM 64 DIRTY OIL TANK (S/N 16-2300-1025)
 Component
Tank Bulk Fluid Tank
 Fluid
{not provided} (59438 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

Bearing and/or gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

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		RP0042676	RP0042589	RP0039263
Sample Date	Client Info		26 Mar 2024	29 Feb 2024	29 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			ATTENTION	ATTENTION	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		22	7	22
Iron	ppm	ASTM D5185m	352	373	367
Chromium	ppm	ASTM D5185m	85	87	86
Nickel	ppm	ASTM D5185m	24	25	24
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	<1	0	2
Lead	ppm	ASTM D5185m	<1	<1	<1
Copper	ppm	ASTM D5185m	96	92	95
Tin	ppm	ASTM D5185m	2	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	2	1	2
Manganese	ppm	ASTM D5185m	19	19	19
Magnesium	ppm	ASTM D5185m	0	0	<1
Calcium	ppm	ASTM D5185m	9	12	10
Phosphorus	ppm	ASTM D5185m	939	1081	1025
Zinc	ppm	ASTM D5185m	47	54	50

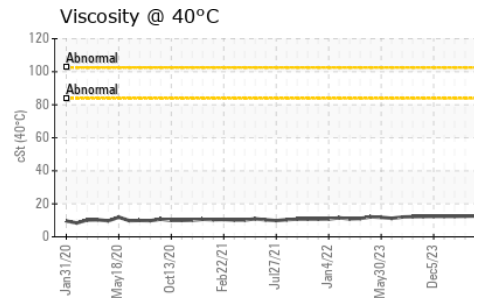
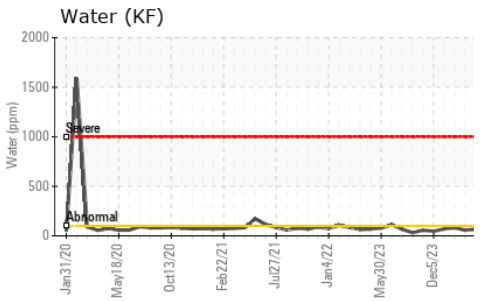
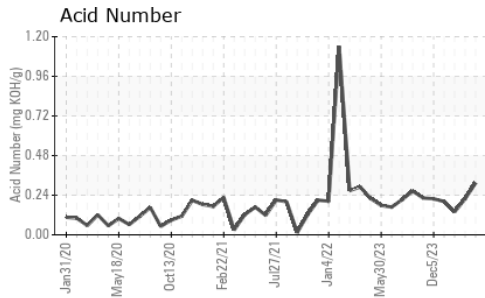
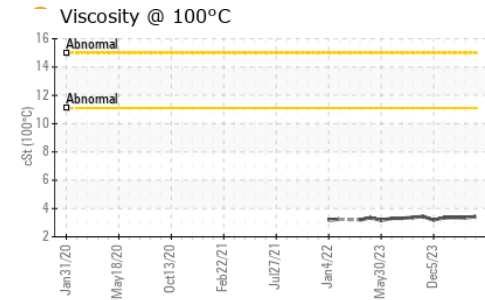
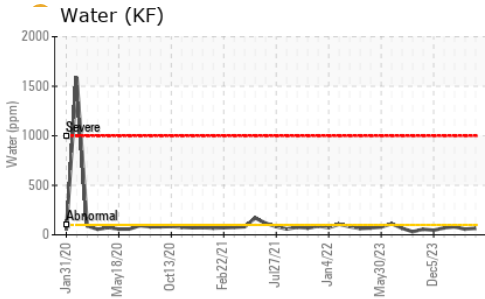
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	3	3	4
Sodium	ppm	ASTM D5185m	4	2	0
Potassium	ppm	ASTM D5185m	>20	<1	2
Water	%	ASTM D6304	0.006	0.005	0.008
ppm Water	ppm	ASTM D6304	66	57	81

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.314	0.218	0.139

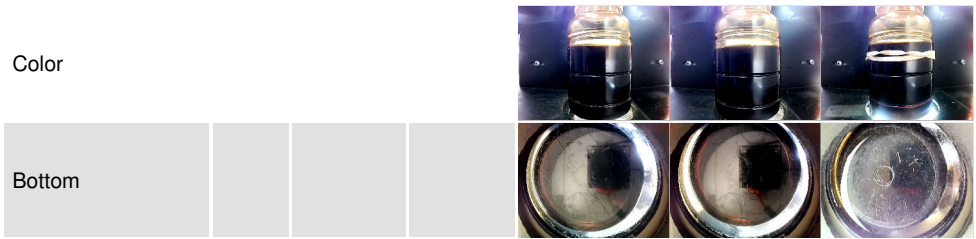
OIL ANALYSIS REPORT



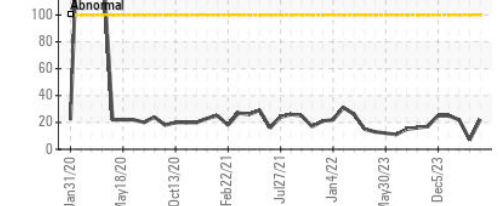
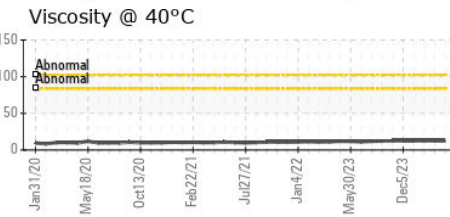
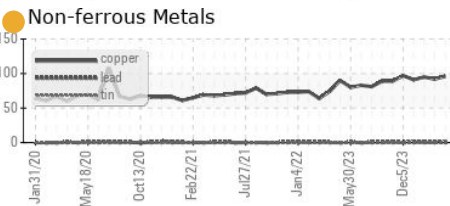
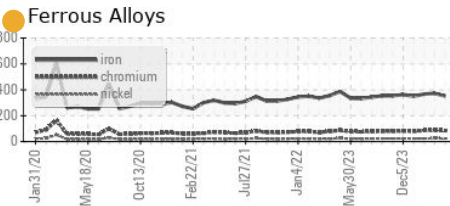
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	12.6	12.5	12.4
Visc @ 100°C	cSt	ASTM D445	3.43	3.34	3.37
Viscosity Index (VI)	Scale	ASTM D2270	157	145	153

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0042676
Lab Number : 06131251
Unique Number : 10950716
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)
Received : 27 Mar 2024
Tested : 29 Mar 2024
Diagnosed : 02 Apr 2024 - Jonathan Hester

OUTOKUMPU STAINLESS USA
 HWY 43 N
 CALVERT, AL
 US 36513
 Contact: MARIO JOHNSON
 Mario.johnson@outokumpu.com
 T: (251)321-4105
 F: x:

Certificate L2367
 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)