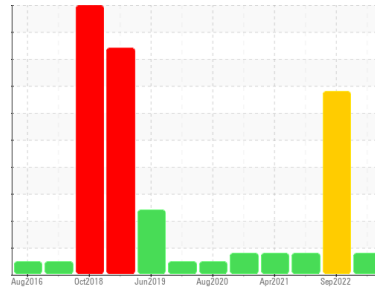




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**MELT SHOP BAG HOUSE (EAF151)**  
 Machine Id  
**CHAIN CONVEYOR FORCE DRAFT COOLER (S/N 15-6400-2000-2040)**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (--- QTS)**

**DIAGNOSIS**

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>RP0039047</b>	RP0029724	RP0023471
Sample Date	Client Info			<b>24 Jun 2024</b>	01 Sep 2022	26 Jan 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL

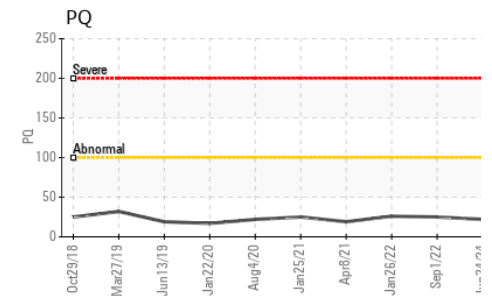
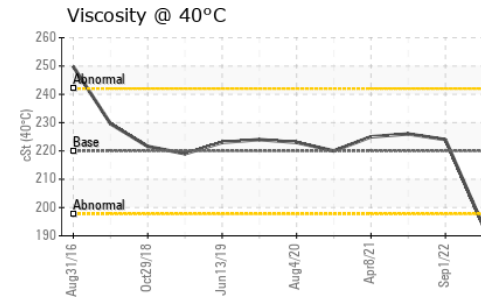
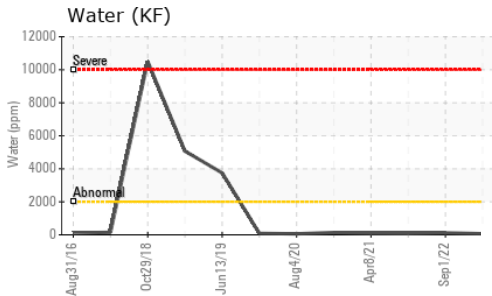
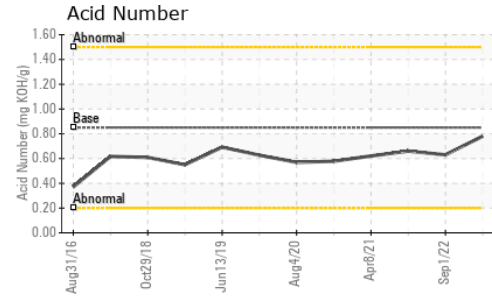
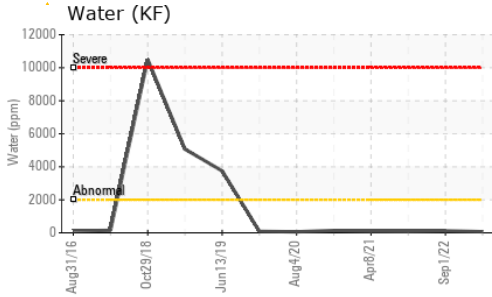
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>22</b>	25	26
Iron	ppm	ASTM D5185m	>200	<b>▲ 474</b>	▲ 1053	▲ 332
Chromium	ppm	ASTM D5185m	>15	<b>4</b>	▲ 12	3
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>10</b>	9	21
Barium	ppm	ASTM D5185m	15	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	15	<b>238</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	4	2
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	50	<b>0</b>	2	<1
Phosphorus	ppm	ASTM D5185m	350	<b>580</b>	288	333
Zinc	ppm	ASTM D5185m	100	<b>2</b>	4	4

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	4	3
Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Water	%	ASTM D6304	>0.2	<b>0.006</b>	0.012	0.008
ppm Water	ppm	ASTM D6304	>2000	<b>66</b>	124.7	83.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.78</b>	0.63	0.66

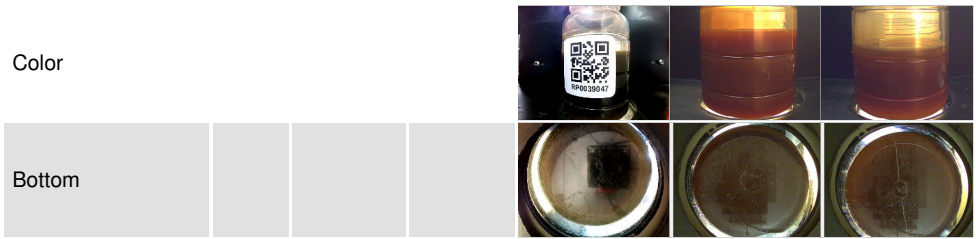
# OIL ANALYSIS REPORT



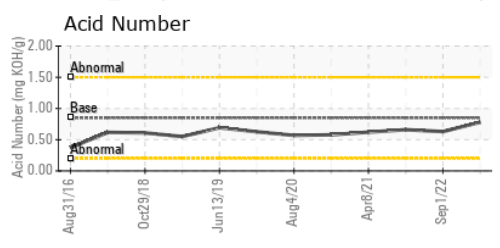
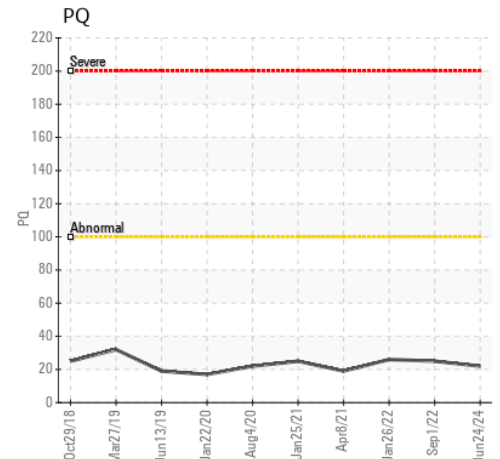
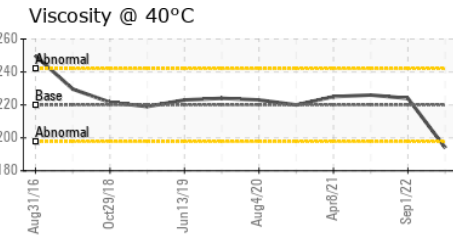
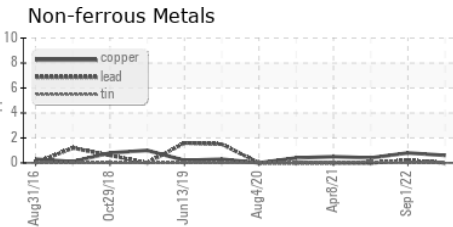
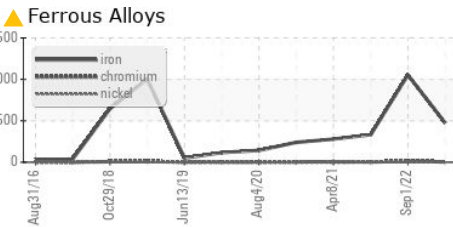
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	194	224

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0039047 **Received** : 25 Jun 2024  
**Lab Number** : 06219783 **Tested** : 26 Jun 2024  
**Unique Number** : 11097980 **Diagnosed** : 27 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PQ )

**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)