**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE ABNORMAL ABNORMAL** 

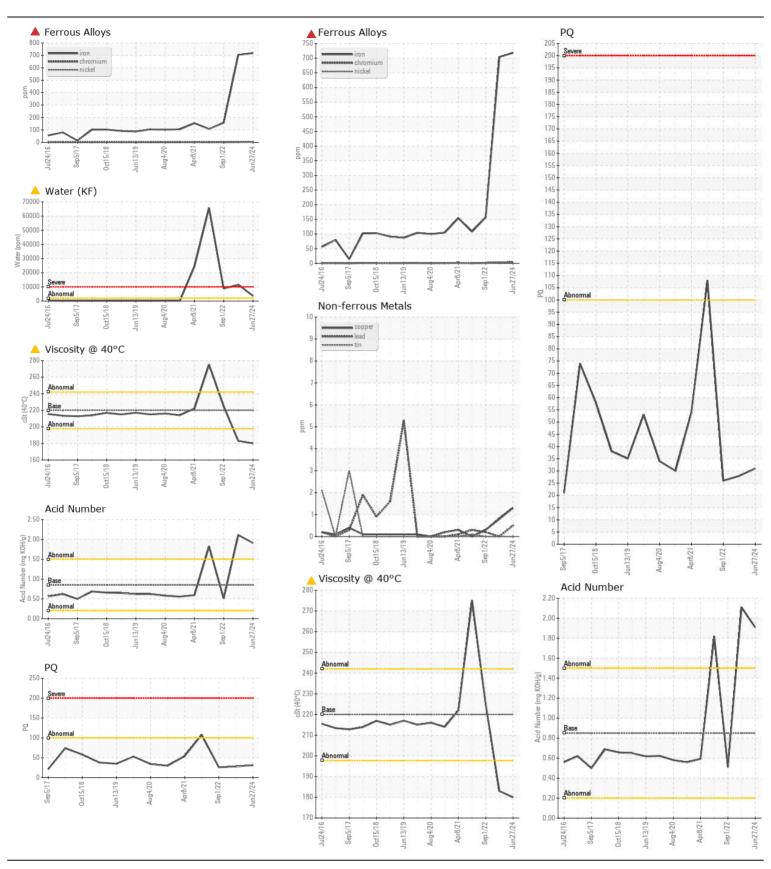
MELT SHOP BAG HOUSE (EAF151)

ET151605-2316B-A001 M/S BAG HOUSE - Chain Conveyor Chamber 7-12 (S/N 16-6400-1000-2020)

Gearbox

GEAR OIL ISO 220 (--- QTS)

GEAR OIL ISO 220 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		RP0039284	RP0039050	RP0029675
	Sample Date		Client Info		27 Jun 2024	24 Jun 2024	01 Sep 2022
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR	PQ		ASTM D8184		31	28	26
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>200	<b>▲</b> 718	<b>1</b> 704	157
	Chromium	ppm	ASTM D5185m		4	3	1
	Nickel	ppm	ASTM D5185m		2	2	0
	Titanium	ppm	ASTM D5185m		- <1	0	0
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	2	<1
	Lead	ppm	ASTM D5185m		- <1	0	<1
	Copper	ppm	ASTM D5185m	>200	1	<1	<1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	720	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	- FO	4	3	
There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.		ppm	ASTM D5185m		1	1	1
	Potassium Water	ppm o/	ASTM D5103111	>0.2		1 ▲ 1.15	▲ 0.874
		%	ASTM D6304	>2000	△ 0.369 △ 3688	▲ 11500	▲ 8740
	ppm Water Silt	ppm	*Visual	NONE	NONE		MODER
	Debris	scalar			▲ MODER	MODER NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	-	NONE	NONE
		scalar	*Visual	NONE	NONE	HAZY	<ul><li>MILKY</li></ul>
	Appearance Odor	scalar scalar	*Visual	NORML	NORML NORML	NORML	NORML
	Emulsified Water			>0.2	▲ 0.2%	▲ 0.2%	▲ 0.2%
	Emaisined Water		VISUAI			0.270	0.270
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	0
The oil viscosity is lower than normal. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		<1	6	<1
	Barium	ppm	ASTM D5185m		1	0	2
	Molybdenum	ppm	ASTM D5185m	15	139	138	<1
	Manganese	ppm	ASTM D5185m		3	3	2
	Magnesium	ppm	ASTM D5185m	50	<1	1	<1
	Calcium	ppm	ASTM D5185m	50	30	34	18
	Phosphorus	ppm	ASTM D5185m	350	460	600	180
	Zinc	ppm	ASTM D5185m	100	35	34	8
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.91	<u>^</u> 2.11	0.51
Report Id: OUTCALAL [WUSCAR] 06223566 (Generated: 07/03/2024 19:04:17) Rev: 1	Visc @ 40°C	cSt	ASTM D445	220	4 180 Submitted	△ 183 d By: DALE F	225 ROBINSON
					2221111100	,,	







Certificate L2367

Laboratory Sample No. Lab Number

: 06223566

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0039284

Received **Tested** Unique Number: 11101763

Diagnosed Test Package : IND 2 (Additional Tests: PQ)

: 28 Jun 2024 : 03 Jul 2024

: 03 Jul 2024 - Jonathan Hester

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

**OUTOKUMPU STAINLESS USA** 

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)

**HWY 43 N** 

US 36513

F: x:

CALVERT, AL