

## **PROBLEM SUMMARY**

## Area **MELT SHOP BAG HOUSE (EAF151)** MS BAG HOUSE (EAF151)- Chain Conveyor Chamber 1-6 (EAF 151) (S/N 15-6400-2000-2010) Gearbox

Fluid

{not provided} (--- QTS)

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>200	<b>600</b>	<b>A</b> 2621	63	
Chromium	ppm	ASTM D5185m	>15	<b>1</b> 7	<b>A</b> 33	<1	

Customer Id: OUTCALAL Sample No.: RP0044103 Lab Number: 06219782 Test Package: IND 2



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*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOM	MENDED	ACT	ONS
		7.011	

Action Inspect Wear Source	Status	Date	Done By	<b>Description</b> We advise that you inspect for the source(s) of wear.
Resample			?	We recommend an early resample to monitor this condition.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.

### HISTORICAL DIAGNOSIS



WATER

## 11 May 2023 Diag: Don Baldridge

01 Sep 2022 Diag: Angela Borella

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

We advise that you check for the source of water entry. We recommend that you drain the oil from the component

if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. Free water present. The AN level is

acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.







view report

#### 26 Jan 2022 Diag: Doug Bogart



We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.





## **OIL ANALYSIS REPORT**

## Area **MELT SHOP BAG HOUSE (EAF151)** MS BAG HOUSE (EAF151)- Chain Conveyor Chamber 1-6 (EAF 151) (S/N 15-6400-2000-2010) Component

Gearbox

Fluid

{not provided} (--- QTS)

## DIAGNOSIS

#### Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

### 🔺 Wear

Gear wear is indicated.

### Contamination

Appearance is hazy. There is no indication of any contamination in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044103	RP0034456	RP0029722
Sample Date		Client Info		24 Jun 2024	11 May 2023	01 Sep 2022
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				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		85	214	25
Iron	ppm	ASTM D5185m	>200	<b>600</b>	▲ 2621	63
Chromium	ppm	ASTM D5185m	>15	<u> </u>	<b>A</b> 33	<1
Nickel	ppm	ASTM D5185m	>15	3	3	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	5	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	2	4	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	18	2
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		273	<1	0
Manganese	ppm	ASTM D5185m		9	9	1
Magnesium	ppm	ASTM D5185m		10	0	1
Calcium	ppm	ASTM D5185m		64	57	177
Phosphorus	ppm	ASTM D5185m		581	370	258
Zinc	ppm	ASTM D5185m		21	0	22
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	8	2
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.2	0.013	0.018	<b>2</b> .18
ppm Water	ppm	ASTM D6304	>2000	130	185.2	<b>1</b> 21800
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.75	0.52	0.51

Sample Rating Trend

WEAR

X



# **OIL ANALYSIS REPORT**













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\* - 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)

Report Id: OUTCALAL [WUSCAR] 06219782 (Generated: 06/29/2024 07:49:14) Rev: 1

Submitted By: DALE ROBINSON

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