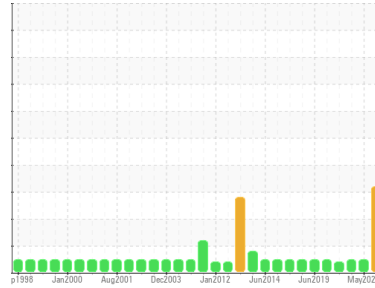




# PROBLEM SUMMARY

Sample Rating Trend



## CONTAMINANT



Area  
**Caster/Segment Drives**  
 Machine Id  
**B - Strand 2 - 1 Gear Box Roll # 80 Top**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA 220 (45 GAL)**

### COMPONENT CONDITION SUMMARY

No relevant graphs to display

### RECOMMENDATION

Technician was unable to draw sample from the machine. Suspect the unit has a very low oil level. We recommend that you check the oil level and top up as required.

### PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	NORMAL	NORMAL
Appearance	scalar Visual*	<span style="color:red">●</span> <b>NOOIL</b>	NORML	NORML

Customer Id: LEWBOSC  
 Sample No.: WC0898683  
 Lab Number: 02608070  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

### 30 May 2023 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 13 Sep 2022 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is higher than typical. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 01 Mar 2022 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

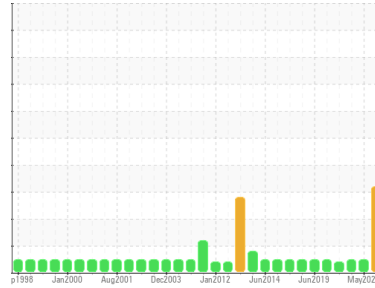
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



CONTAMINANT



Area  
**Caster/Segment Drives**  
 Machine Id  
**B - Strand 2 - 1 Gear Box Roll # 80 Top**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA 220 (45 GAL)**

## DIAGNOSIS

### Recommendation

Technician was unable to draw sample from the machine. Suspect the unit has a very low oil level. We recommend that you check the oil level and top up as required.

### Wear

{not applicable}

### Contamination

{not applicable}

### Fluid Condition

{not applicable}

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0898683</b>	WC0824372	WC0743633
Sample Date	Client Info		<b>10 Jan 2024</b>	30 May 2023	13 Sep 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>SEVERE</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>5	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>DFLT	---	0	0
Iron	ppm	ASTM D5185(m) >200	---	7	11
Chromium	ppm	ASTM D5185(m) >15	---	0	0
Nickel	ppm	ASTM D5185(m) >15	---	0	<1
Titanium	ppm	ASTM D5185(m)	---	0	0
Silver	ppm	ASTM D5185(m)	---	0	0
Aluminum	ppm	ASTM D5185(m) >25	---	0	<1
Lead	ppm	ASTM D5185(m) >100	---	0	0
Copper	ppm	ASTM D5185(m) >200	---	0	0
Tin	ppm	ASTM D5185(m) >25	---	0	0
Antimony	ppm	ASTM D5185(m) >5	---	0	<1
Vanadium	ppm	ASTM D5185(m)	---	0	0
Beryllium	ppm	ASTM D5185(m)	---	0	0
Cadmium	ppm	ASTM D5185(m)	---	0	0

## ADDITIVES

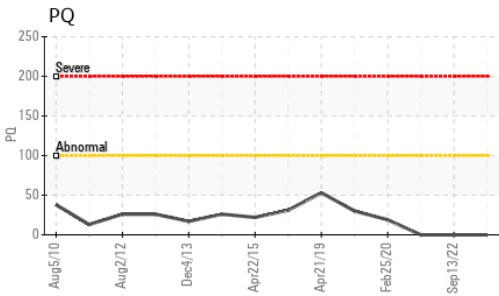
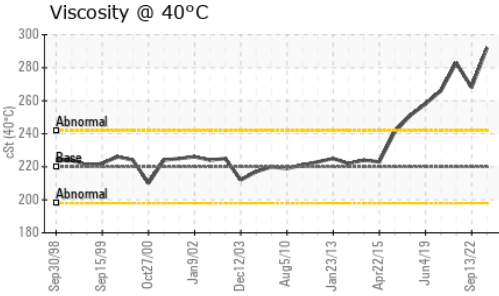
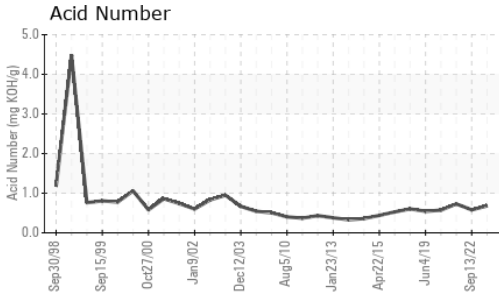
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.4	---	18	16
Barium	ppm	ASTM D5185(m) 0.0	---	0	0
Molybdenum	ppm	ASTM D5185(m) 0	---	0	0
Manganese	ppm	ASTM D5185(m)	---	0	<1
Magnesium	ppm	ASTM D5185(m) 0	---	<1	<1
Calcium	ppm	ASTM D5185(m) 0	---	0	2
Phosphorus	ppm	ASTM D5185(m) 215	---	358	335
Zinc	ppm	ASTM D5185(m) 0	---	1	1
Sulfur	ppm	ASTM D5185(m) 7039	---	9398	10502
Lithium	ppm	ASTM D5185(m)	---	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	---	2	1
Sodium	ppm	ASTM D5185(m)	---	<1	<1
Potassium	ppm	ASTM D5185(m) >20	---	0	<1



# OIL ANALYSIS REPORT



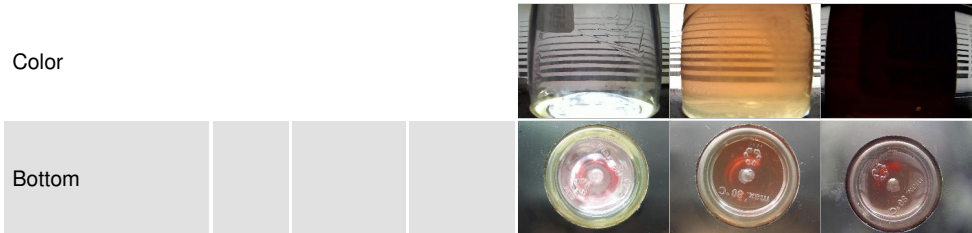
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	114485	77215
Particles >6µm	ASTM D7647	>10240000	---	24210	18603
Particles >14µm	ASTM D7647	>10240000	---	1409	1214
Particles >21µm	ASTM D7647	>2560000	---	333	317
Particles >38µm	ASTM D7647	>640000	---	7	3
Particles >71µm	ASTM D7647	>160000	---	1	0
Oil Cleanliness	ISO 4406 (c)	>--/30/30	---	24/22/18	23/21/17

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	---	0.68	0.58

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
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	NOOIL	NONE
Appearance	scalar	Visual*	NORML	NOOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>5	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	---	292

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0898683 **Received** : 10 Jan 2024 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : 02608070 **Diagnosed** : 11 Jan 2024 NANTICOKE, ON  
**Unique Number** : 5709156 **Diagnostician** : Kevin Marson CA N0A 1L0  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

Contact: Tom Walden  
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