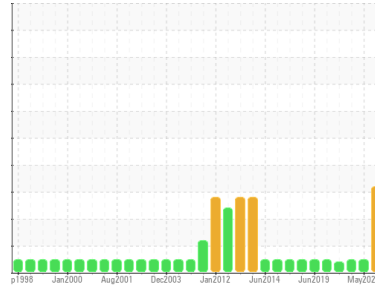




PROBLEM SUMMARY

Area
Caster/Segment Drives
 Machine Id
B - Strand 2 - 1 Gear Box Roll # 70 Top
 Component
Gearbox
 Fluid
SHELL OMALA 220 (45 GAL)

Sample Rating Trend



CONTAMINANT



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Appearance	scalar	Visual*	NORML	● NOOIL	NORML	NORML

Customer Id: LEWBOSC
 Sample No.: WC0898686
 Lab Number: 02608073
 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

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
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.

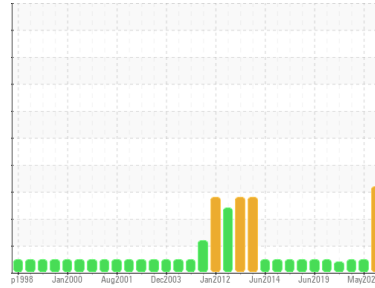
view report





OIL ANALYSIS REPORT

Sample Rating Trend



CONTAMINANT



Area
Caster/Segment Drives
 Machine Id
B - Strand 2 - 1 Gear Box Roll # 70 Top
 Component
Gearbox
 Fluid
SHELL OMALA 220 (45 GAL)

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0898686	WC0824368	WC0743616
Sample Date	Client Info			10 Jan 2024	30 May 2023	13 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	NORMAL	NORMAL

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

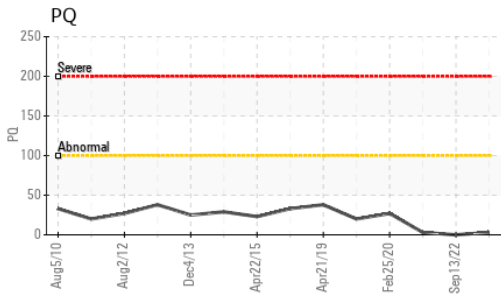
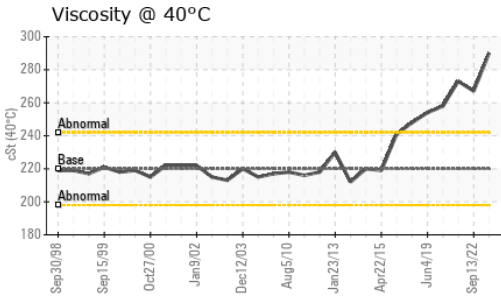
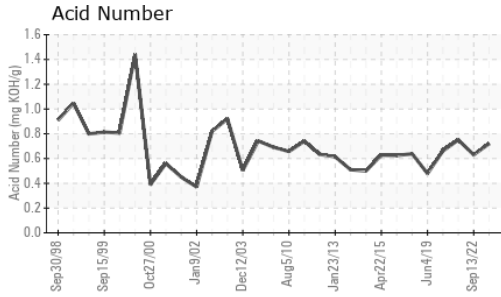
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>DFLT	---	3	0
Iron	ppm	ASTM D5185(m)	>200	---	15	11
Chromium	ppm	ASTM D5185(m)	>15	---	0	0
Nickel	ppm	ASTM D5185(m)	>15	---	<1	0
Titanium	ppm	ASTM D5185(m)		---	0	0
Silver	ppm	ASTM D5185(m)		---	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	---	<1	0
Lead	ppm	ASTM D5185(m)	>100	---	0	<1
Copper	ppm	ASTM D5185(m)	>200	---	<1	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	---	22	17
Barium	ppm	ASTM D5185(m)	0.0	---	0	0
Molybdenum	ppm	ASTM D5185(m)	0	---	0	0
Manganese	ppm	ASTM D5185(m)		---	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	---	<1	<1
Calcium	ppm	ASTM D5185(m)	0	---	0	1
Phosphorus	ppm	ASTM D5185(m)	215	---	364	344
Zinc	ppm	ASTM D5185(m)	0	---	2	2
Sulfur	ppm	ASTM D5185(m)	7039	---	9170	9582
Lithium	ppm	ASTM D5185(m)		---	<1	<1

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



OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	208906	69454
Particles >6µm	ASTM D7647	>10240000	---	77013	14446
Particles >14µm	ASTM D7647	>10240000	---	5190	827
Particles >21µm	ASTM D7647	>2560000	---	1216	235
Particles >38µm	ASTM D7647	>640000	---	33	19
Particles >71µm	ASTM D7647	>160000	---	2	10
Oil Cleanliness	ISO 4406 (c)	>--/30/30	---	25/23/20	23/21/17

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	---	0.72	0.63

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	220	---	290	267

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color						
Bottom						



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0898686 **Received** : 10 Jan 2024 2330 Regional Road #3, Door: BOSC8
Lab Number : 02608073 **Diagnosed** : 11 Jan 2024 NANTICOKE, ON
Unique Number : 5709159 **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
 Thomas.Walden@stelco.com
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 F: (519)587-7702