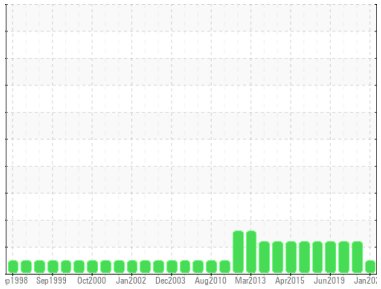
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Caster/Segment Drives
Machine Id
B - Strand 2 - 1 Gear Box Roll # 20 Top
Component
Gearbox
Fluid
SHELL OMALA 220 (36 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0898699**	WC0838957	WC0446880
Sample Date		Client Info		**10 Jan 2024**	13 Jul 2023	25 Feb 2020
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				**NORMAL**	ABNORMAL	ABNORMAL

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	**0**	0	13
Iron	ppm	ASTM D5185(m)	>200	**109**	100	88
Chromium	ppm	ASTM D5185(m)	>15	**1**	2	3
Nickel	ppm	ASTM D5185(m)	>15	**1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>100	**4**	4	<1
Copper	ppm	ASTM D5185(m)	>200	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>25	**0**	0	0
Antimony	ppm	ASTM D5185(m)	>5	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	**1**	2	1
Barium	ppm	ASTM D5185(m)	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	**4**	4	3
Calcium	ppm	ASTM D5185(m)	0	**2**	2	1
Phosphorus	ppm	ASTM D5185(m)	215	**564**	611	591
Zinc	ppm	ASTM D5185(m)	0	**40**	37	57
Sulfur	ppm	ASTM D5185(m)	7039	**7507**	7374	7580
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

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

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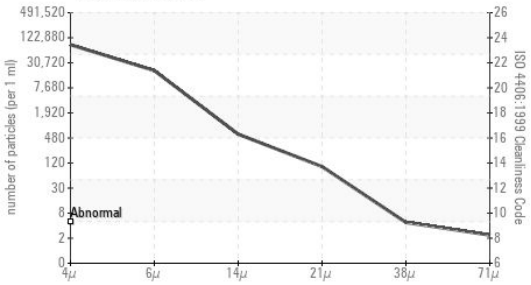
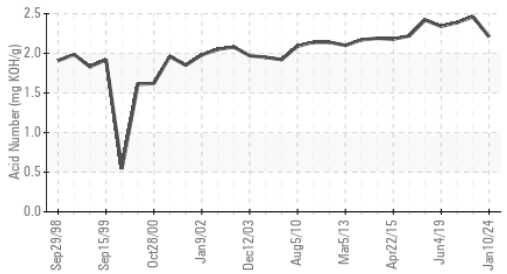
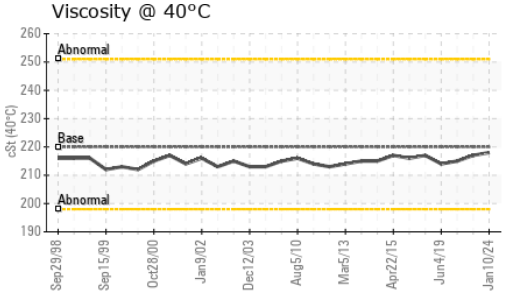
Particle Count



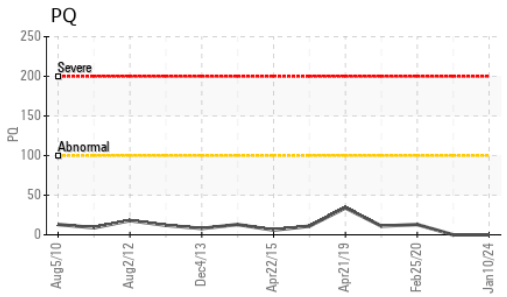
Acid Number



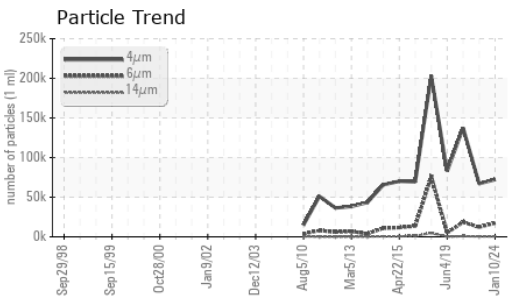
Viscosity @ 40°C



PQ



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**72223**	67059	137488
Particles >6µm		ASTM D7647	>10240000	**17350**	12102	18453
Particles >14µm		ASTM D7647	>10240000	**520**	494	789
Particles >21µm		ASTM D7647	>2560000	**87**	122	282
Particles >38µm		ASTM D7647	>640000	**4**	4	6
Particles >71µm		ASTM D7647	>160000	**2**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/30/30	**23/21/16**	23/21/16	24/21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**2.21**	▲ 2.46	▲ 2.39

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	VLITE
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	VLITE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	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	**218**	217	215

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0898699 **Recieved** : 10 Jan 2024 2330 Regional Road #3, Door: BOSC8
Lab Number : 02608031 **Diagnosed** : 12 Jan 2024 NANTICOKE, ON
Unique Number : 5709117 **Diagnostician** : Kevin Marson CA N0A 1L0
Test Package : IND 2 (Additional Tests: PQ, PrtCount) Contact: Tom Walden

To discuss this sample report, contact Customer Service at 1-800-268-2131. Thomas.Walden@stelco.com
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)587-4541
Validity of results and interpretation are based on the sample and information as supplied. F: (519)587-7702