

OIL ANALYSIS REPORT

Caster/Segment Drives B - Strand 2 - 1 Gear Box Roll # 85 Bottom Component

Gearbox Fluid

SHELL OMALA 220 (45 GAL)

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

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.



Sample Rating Trend



SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898680	WC	WC0743617
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				NORMAL	SEVERE	NORMAL
CONTAMINATIO	N	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
Iron	ppm	ASTM D5185(m)	>200	5		5
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	<1		<1
Lead	ppm	ASTM D5185(m)	>100	0		0
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	18		15
Barium	ppm	ASTM D5185(m)	0.0	0		0
Molybdenum	ppm	ASTM D5185(m)	0	0		0
Manganese	ppm	ASTM D5185(m)		0		0
Magnesium	ppm	ASTM D5185(m)	0	<1		<1
Calcium	ppm	ASTM D5185(m)		2		1
Phosphorus	ppm	ASTM D5185(m)	215	318		350
Zinc	ppm	ASTM D5185(m)		2		1
Sulfur	ppm	ASTM D5185(m)	7039	9586		9670
Lithium	ppm	ASTM D5185(m)		<1		<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	1		1
Sodium	ppm	ASTM D5185(m)		0		<1
Potassium	ppm	ASTM D5185(m)	>20	<1		0



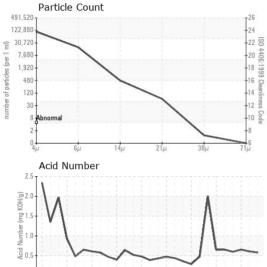
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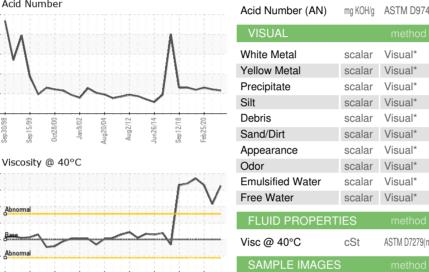
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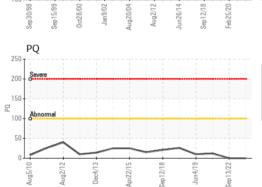
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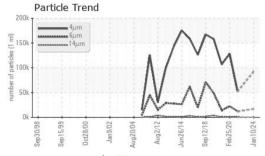






Id2/12 n26/14

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FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		92210		51828
Particles >6µm		ASTM D7647	>10240000	16587		11925
Particles >14µm		ASTM D7647	>10240000	422		706
Particles >21µm		ASTM D7647	>2560000	56		190
Particles >38µm		ASTM D7647	>640000	1		16
Particles >71µm		ASTM D7647	>160000	0		9
Oil Cleanliness		ISO 4406 (c)	>/30/30	24/21/16		23/21/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.58		0.61
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	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	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NOOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>5	NEG		NEG
Free Water	scalar	Visual*		NEG		NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	285		263
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Color

Bottom



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 STELCO - BOSC - Basic Oxygen Slab Caster Laboratory CALA Sample No. : WC0898680 Recieved : 10 Jan 2024 2330 Regional Road #3, Door: BOSC8 Lab Number : 02608025 Diagnosed NANTICOKE, ON : 12 Jan 2024 ISO 17025:2017 Accredited Laboratory : 5709111 Diagnostician : Kevin Marson CA N0A 1L0 Unique Number Test Package : IND 2 (Additional Tests: PQ, PrtCount) Contact: Tom Walden Thomas.Walden@stelco.com 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. T: (519)587-4541 Validity of results and interpretation are based on the sample and information as supplied. F: (519)587-7702