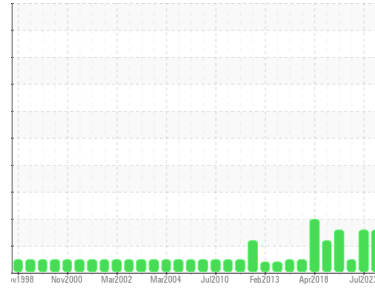




# OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Area  
**BOF/ALLOY SYSTEM**  
 Machine Id  
**A - L3 Conveyor Drive Gear Box**  
 Component  
**Gearbox**  
 Fluid  
**ESSO SPARTAN EP 220 (5 GAL)**

## DIAGNOSIS

### ▲ Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. 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			<b>WC0898702</b>	WC0838942	WC0413612
Sample Date	Client Info			<b>10 Jan 2024</b>	13 Jul 2023	25 Nov 2019
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>ATTENTION</b>	ATTENTION	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	<b>12</b>	13	98
Iron	ppm	ASTM D5185(m)	>200	<b>26</b>	26	129
Chromium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	3
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	<1	4
Lead	ppm	ASTM D5185(m)	>100	<b>1</b>	1	10
Copper	ppm	ASTM D5185(m)	>200	<b>1</b>	2	2
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

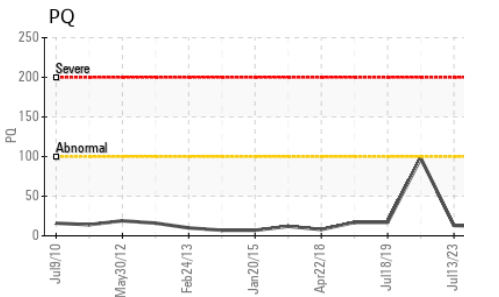
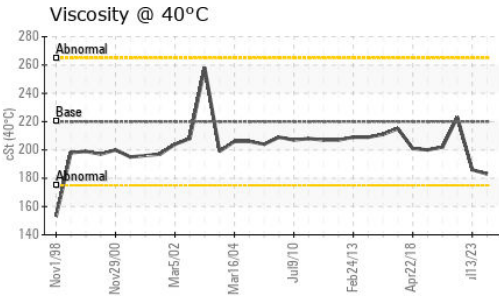
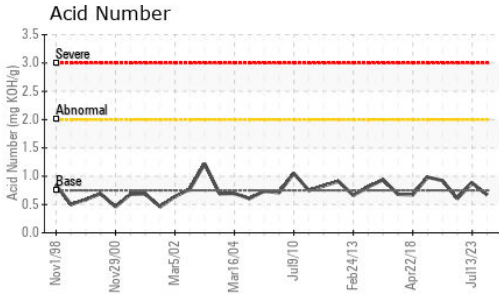
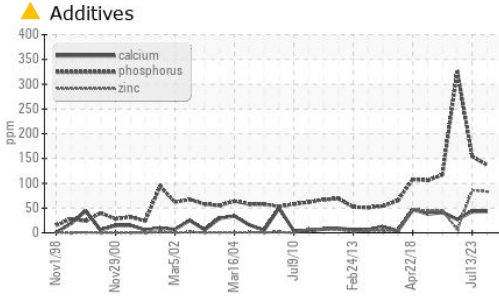
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	.5	<b>11</b>	11	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>2</b>	3	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	6
Magnesium	ppm	ASTM D5185(m)	0	<b>16</b>	16	16
Calcium	ppm	ASTM D5185(m)	1.7	<b>▲ 43</b>	▲ 43	27
Phosphorus	ppm	ASTM D5185(m)	250	<b>▲ 137</b>	▲ 154	327
Zinc	ppm	ASTM D5185(m)	.3	<b>▲ 83</b>	▲ 86	7
Sulfur	ppm	ASTM D5185(m)		<b>▲ 6402</b>	▲ 6363	9549
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>2</b>	2	7
Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.75	<b>0.67</b>	0.88	0.605



# OIL ANALYSIS REPORT



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

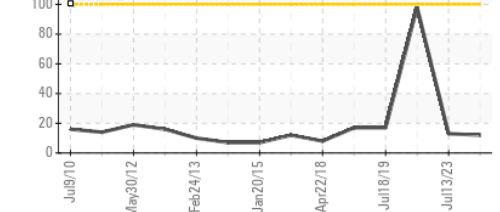
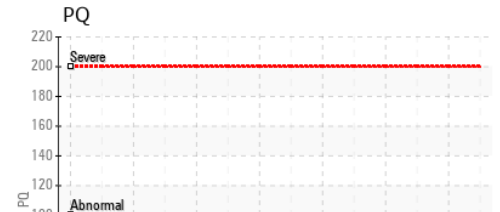
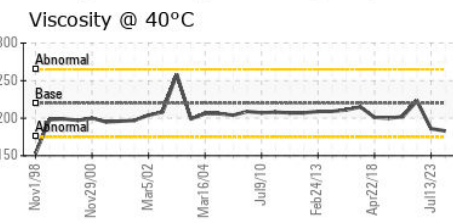
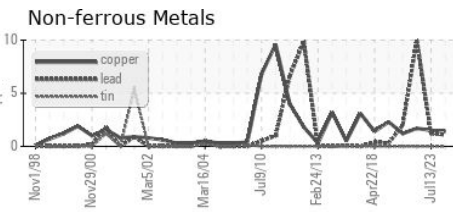
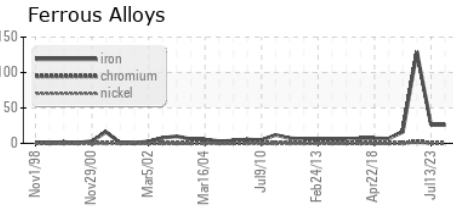
### FLUID PROPERTIES

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	183	186

### SAMPLE IMAGES

PARAMETER	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0898702 **Received** : 10 Jan 2024 **2330 Regional Road #3, Door: BOSC8**  
**Lab Number** : 02608028 **Diagnosed** : 12 Jan 2024 **NANTICOKE, ON**  
**Unique Number** : 5709114 **Diagnostician** : Kevin Marson **CA N0A 1L0**  
**Test Package** : IND 2 **Contact: Tom Walden**

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.  
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**T: (519)587-4541**  
**F: (519)587-7702**