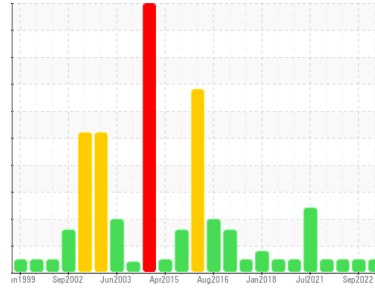




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**7**

Machine Id

**07-2120-020-000 TSL FORM BIN RAKER (7HCM55)**

Component

**7 Gearbox**

Fluid

**ESSO SPARTAN EP 680 (2 LTR)**

## 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>WC0841082</b>	WC0740039	WC0707571
Sample Date	Client Info		<b>09 Aug 2023</b>	07 Sep 2022	10 Aug 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>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	6	0
Iron	ppm	ASTM D5185(m) >200	<b>50</b>	54	34
Chromium	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	3	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
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) 1.2	<b>8</b>	7	6
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 5.6	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m) 1.6	<b>3</b>	4	2
Phosphorus	ppm	ASTM D5185(m) 250	<b>322</b>	360	365
Zinc	ppm	ASTM D5185(m) 7.5	<b>72</b>	23	19
Sulfur	ppm	ASTM D5185(m)	<b>3821</b>	4062	4253
Lithium	ppm	ASTM D5185(m)	<b>6</b>	7	5

## CONTAMINANTS

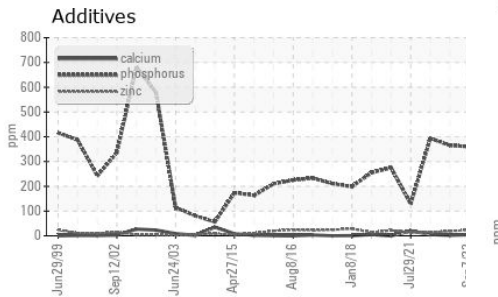
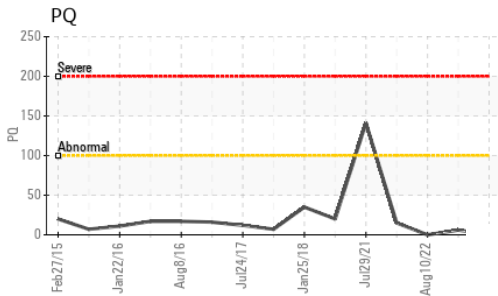
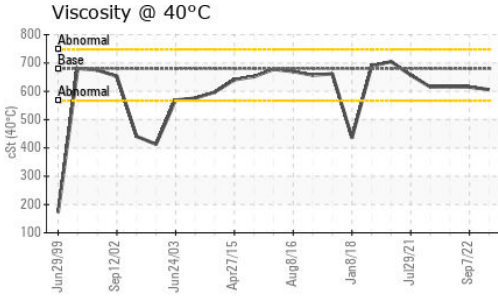
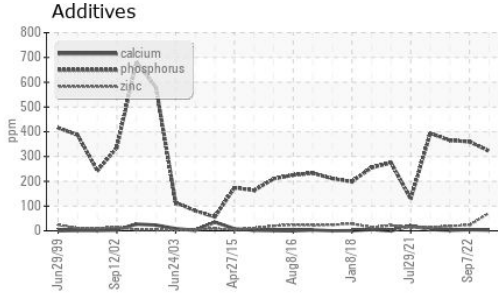
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Silicon	ppm	ASTM D5185(m) >50	<b>9</b>	7	5
Sodium	ppm	ASTM D5185(m)	<b>0</b>	1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.75	<b>0.66</b>	0.68	0.66



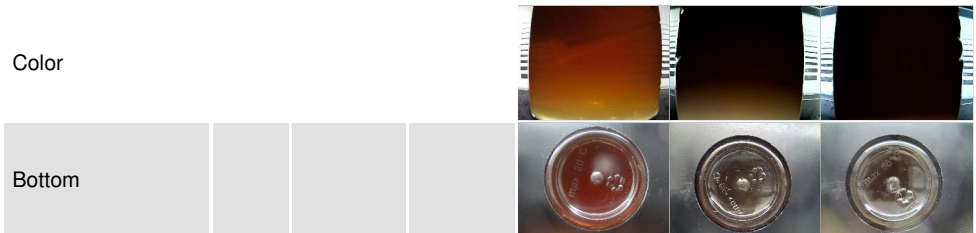
# OIL ANALYSIS REPORT



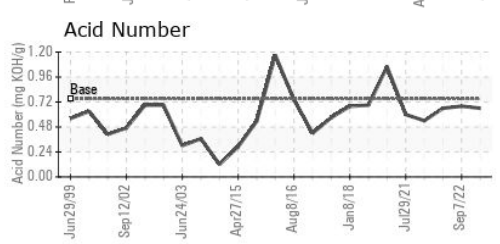
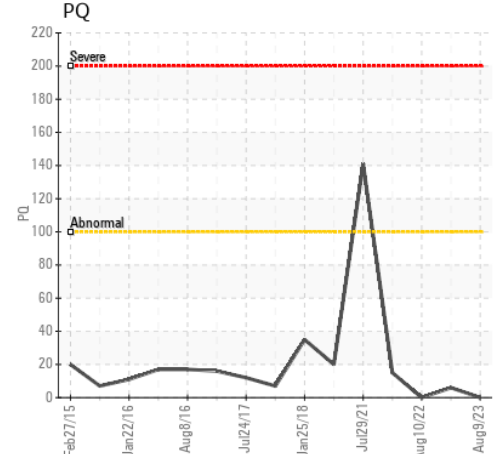
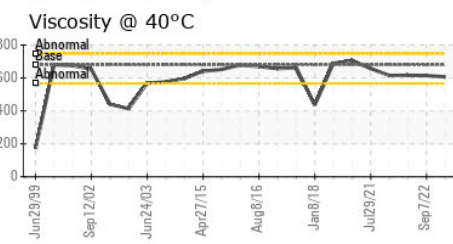
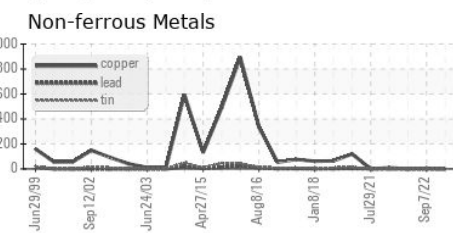
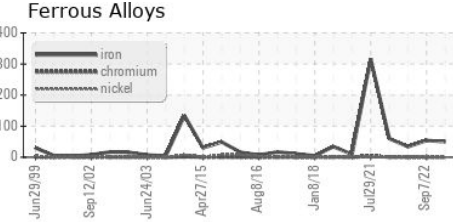
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	680	606	615

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0841082  
**Lab Number** : 02575492  
**Unique Number** : 5620543  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Roseburg Pembroke MDF Inc.**  
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 Pembroke, ON  
 CA K8A 6W5  
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 danielh@rfpco.com  
 T: (613)732-3939  
 F: (613)732-2869

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.