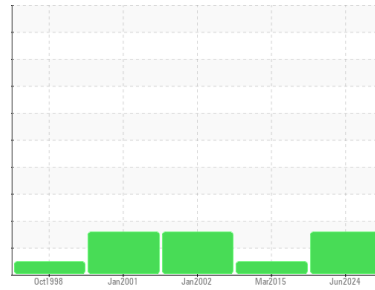




# OIL ANALYSIS REPORT

Sample Rating Trend



Area

**2**  
Machine Id  
**02-0240-000-000 FACE CONV TO DESTONER #1 (2M82)**

Component

**2 Gearbox**

Fluid

**SHELL OMALA S4 GXV 220 (1 GAL)**

## DIAGNOSIS

### Recommendation

We recommend that you change the oil.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate concentration of dirt present in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0945421</b>	WC934675	WC554358
Sample Date	Client Info		<b>26 Jun 2024</b>	16 Mar 2015	24 Jan 2002
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>Not Chngd</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>1</b>	7	---
Iron	ppm	ASTM D5185(m) >200	<b>51</b>	56	7
Chromium	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0	3
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>32</b>	17	<1
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	1
Calcium	ppm	ASTM D5185(m)	<b>2</b>	26	<1
Phosphorus	ppm	ASTM D5185(m)	<b>404</b>	287	299
Zinc	ppm	ASTM D5185(m)	<b>5</b>	7	<1
Sulfur	ppm	ASTM D5185(m)	<b>4916</b>	7842	3725
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

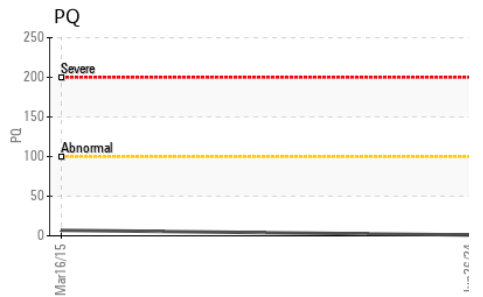
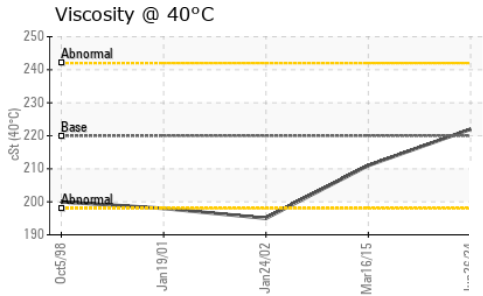
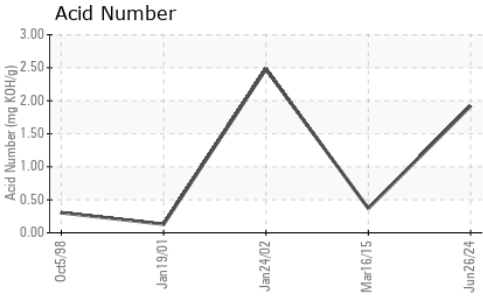
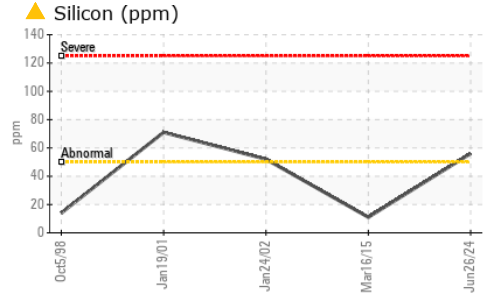
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>▲ 56</b>	11	<b>▲ 52</b>
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	0
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	1	2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>1.92</b>	0.37	2.48



# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	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	VLITE
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

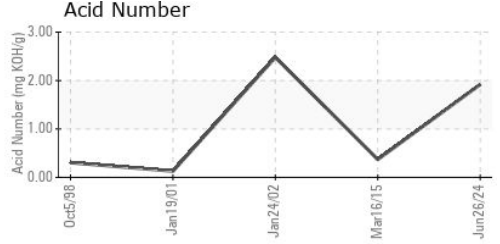
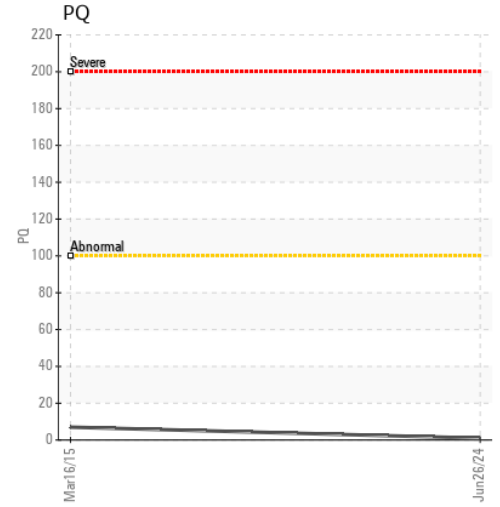
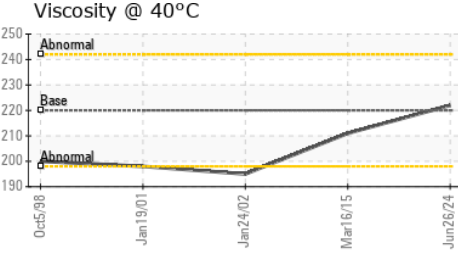
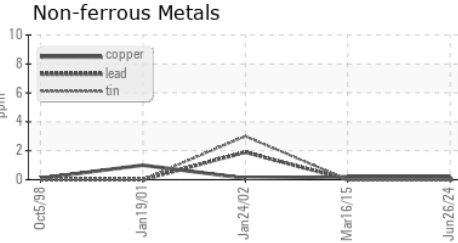
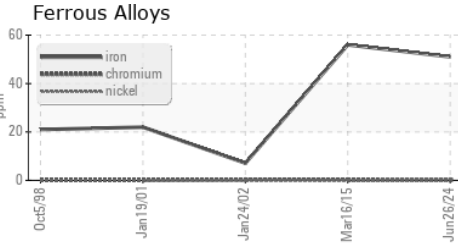
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	222	211

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0945421      **Received** : 02 Jul 2024  
**Lab Number** : 02644987      **Tested** : 04 Jul 2024  
**Unique Number** : 5802526      **Diagnosed** : 04 Jul 2024 - Kevin Marson  
**Test Package** : IND 2

**Roseburg Pembroke MDF Inc.**  
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 Pembroke, ON  
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 Contact: Dan Havis  
 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.