



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**50045254**  
Component  
**Port Gearbox**  
Fluid  
**CHEVRON DELO 400 SDE SAE 15W40 (--- LTR)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0019581</b>	WA0020413	WA0019139
Sample Date		Client Info		<b>31 May 2024</b>	09 Mar 2024	16 Feb 2023
Machine Age	hrs	Client Info		<b>701</b>	667	408
Oil Age	hrs	Client Info		<b>132</b>	98	208
Filter Age	hrs	Client Info		<b>132</b>	98	208
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>11</b>	10	13
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	3
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	5	3
Lead	ppm	ASTM D5185(m)	>50	<b>5</b>	5	3
Copper	ppm	ASTM D5185(m)	>200	<b>61</b>	50	33
Tin	ppm	ASTM D5185(m)	>10	<b>3</b>	3	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

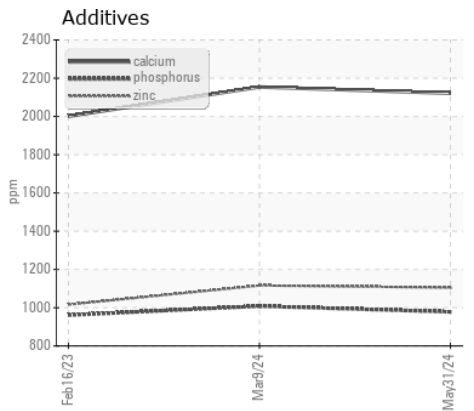
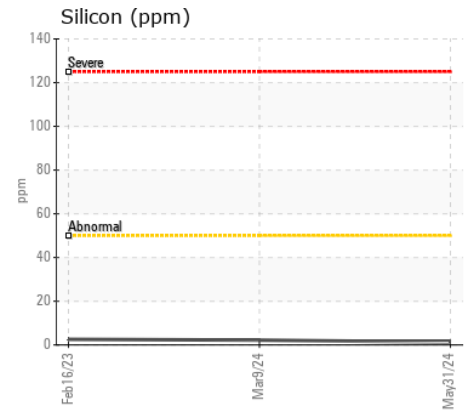
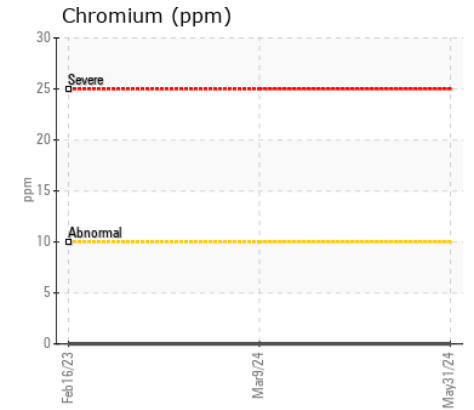
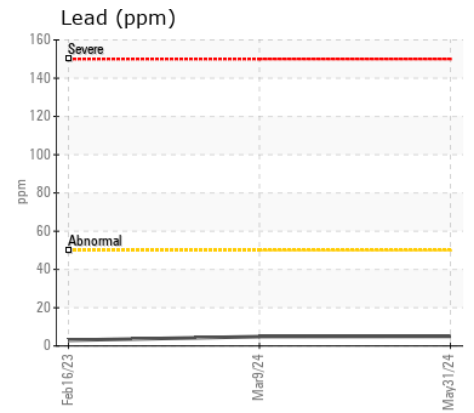
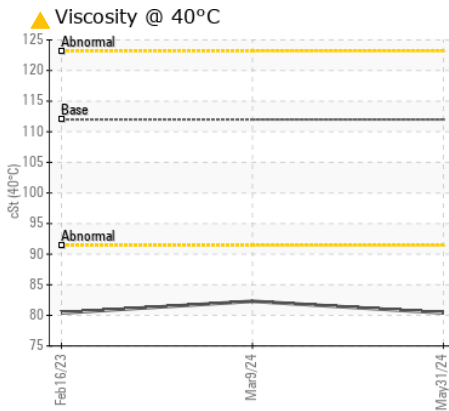
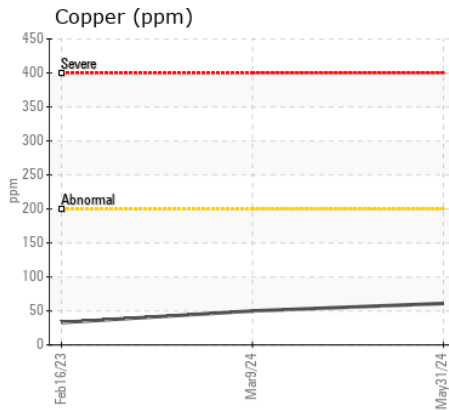
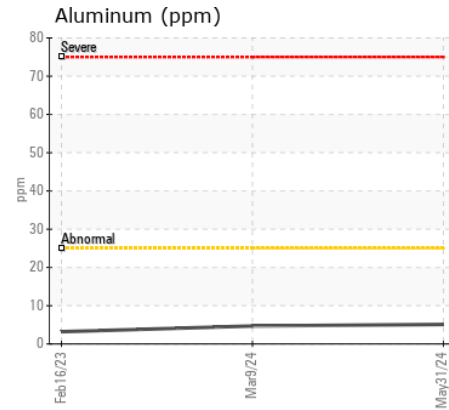
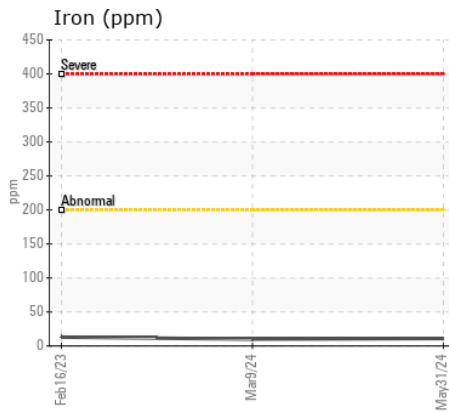
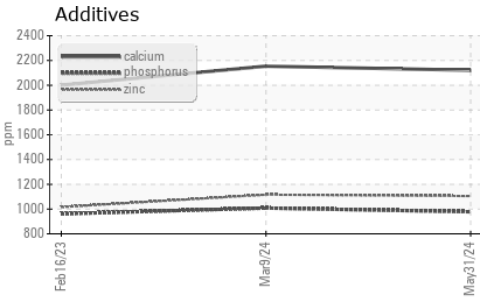
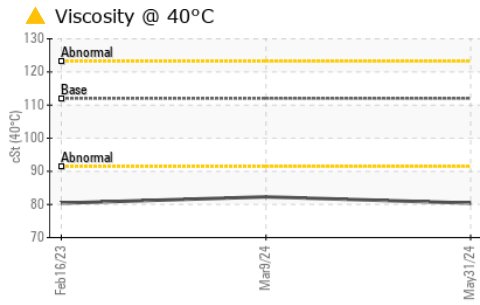
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	<b>1</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	7	6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	4
Boron	ppm	ASTM D5185(m)		<b>185</b>	181	155
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>1</b>	2	7
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>51</b>	51	146
Calcium	ppm	ASTM D5185(m)		<b>2121</b>	2154	2001
Phosphorus	ppm	ASTM D5185(m)	760	<b>978</b>	1008	961
Zinc	ppm	ASTM D5185(m)	800	<b>1105</b>	1116	1016
Sulfur	ppm	ASTM D5185(m)	3000	<b>3120</b>	3416	3544
Visc @ 40°C	cSt	ASTM D7279(m)	112	<b>▲ 80.4</b>	▲ 82.3	▲ 80.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0019581  
**Lab Number** : 02641177  
**Unique Number** : 5798716  
**Test Package** : MOB 1  
**Received** : 11 Jun 2024  
**Tested** : 11 Jun 2024  
**Diagnosed** : 11 Jun 2024 - Kevin Marson

**CANADIAN COAST GUARD (SHEDIAC BAY)**  
 4 NAVY WAY  
 SAINT JOHN, NB  
 CA E2K 0H8  
 Contact: Service Manager

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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F: