

Area  
**MICHAUDVILLE**

Machine Id  
**8506**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA PRODURO TO-4 SYNTHETIC ALL SEASON (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083611</b>	PC0078085	PC0070963
Sample Date		Client Info		<b>19 Feb 2024</b>	13 Sep 2023	16 Apr 2023
Machine Age	hrs	Client Info		<b>6293</b>	5885	5470
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>11</b>	10	10
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	5
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>75	<b>5</b>	5	4
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
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**

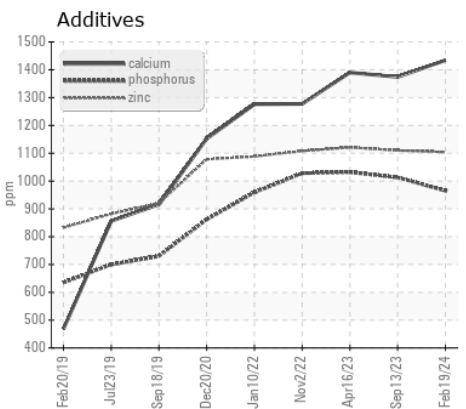
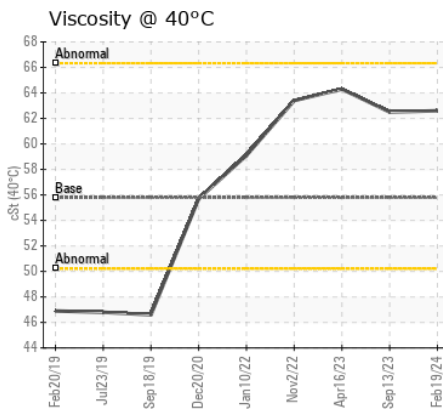
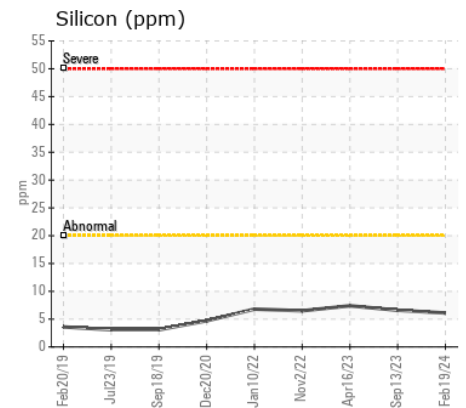
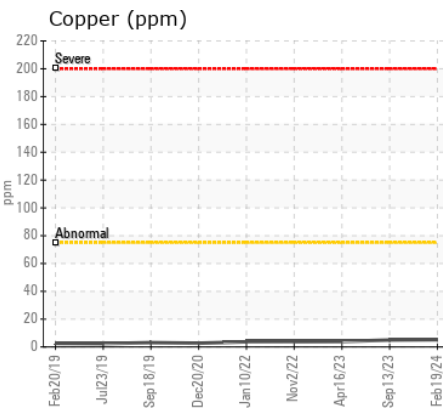
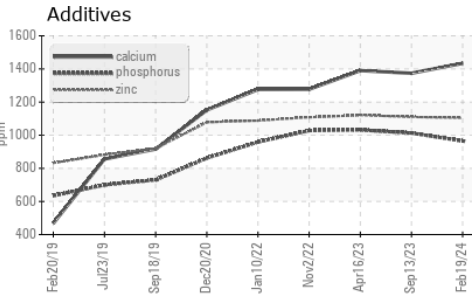
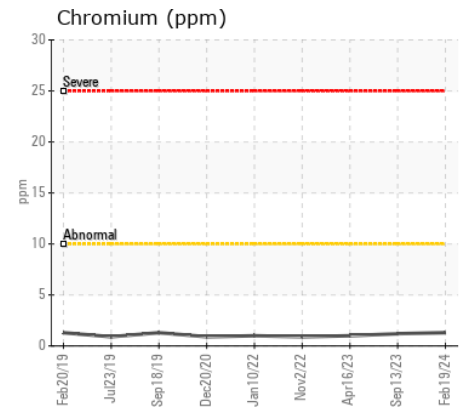
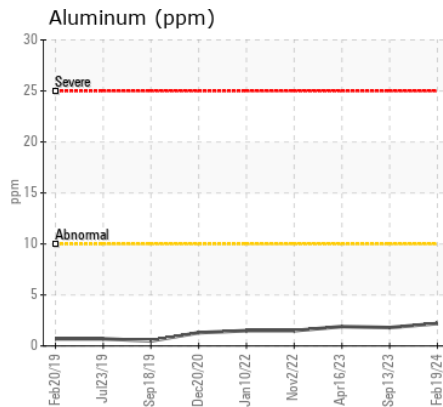
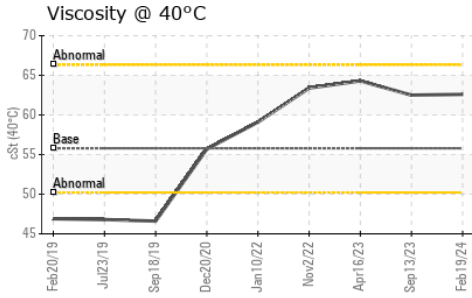
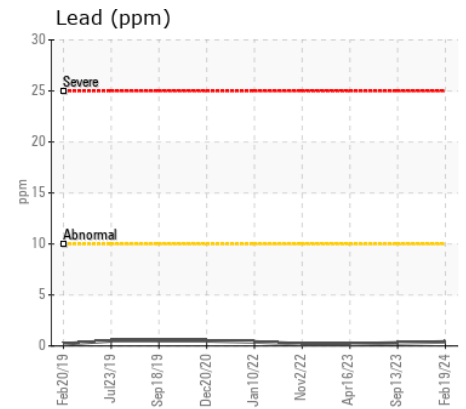
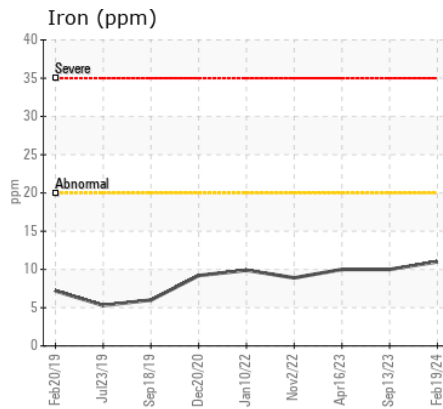
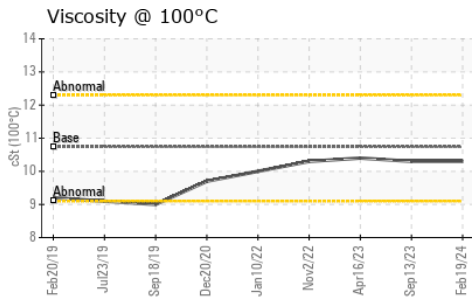
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	7	7
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	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*	>0.1	<b>NEG</b>	.2%	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Boron	ppm	ASTM D5185(m)	5	<b>5</b>	6	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>38</b>	38	40
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	<b>604</b>	616	645
Calcium	ppm	ASTM D5185(m)	3068	<b>1434</b>	1374	1390
Phosphorus	ppm	ASTM D5185(m)	1081	<b>965</b>	1013	1032
Zinc	ppm	ASTM D5185(m)	1199	<b>1104</b>	1110	1121
Sulfur	ppm	ASTM D5185(m)	4636	<b>2959</b>	2752	2806
Visc @ 40°C	cSt	ASTM D7279(m)	55.79	<b>62.6</b>	62.5	64.3
Visc @ 100°C	cSt	ASTM D7279(m)	10.74	<b>10.3</b>	10.3	10.4
Viscosity Index (VI)	Scale	ASTM D2270*	187	<b>152</b>	152	149



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083611  
**Lab Number** : 02616665  
**Unique Number** : 5733775  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**LES ENTREPRISES MICHAUVILLE INC.**  
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 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.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.  
 Validity of results and interpretation are based on the sample and information as supplied.

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F: