

Area  
**UPS CANADA**  
Machine Id  
**FORD 515414**  
Component  
**Gasoline Engine**  
Fluid  
**PETRO CANADA SUPREME 5W30 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0085518</b>	PC0085528	PC0085564
Sample Date		Client Info		<b>11 Jun 2024</b>	29 May 2024	19 Dec 2023
Machine Age	kms	Client Info		<b>19026</b>	15528	3299
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	---	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	<b>11</b>	11	2
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>7</b>	6	1
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>155	<b>9</b>	11	4
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</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**

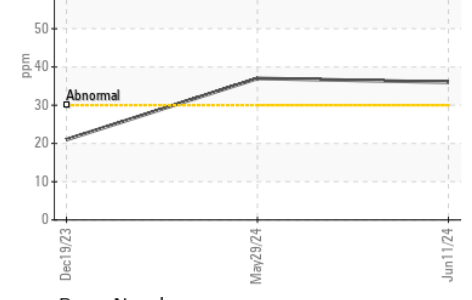
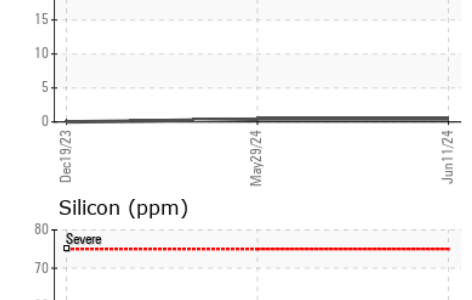
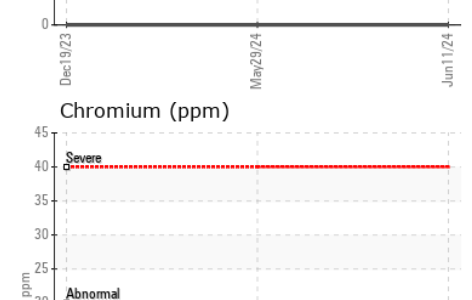
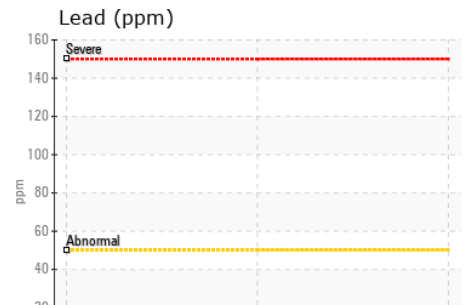
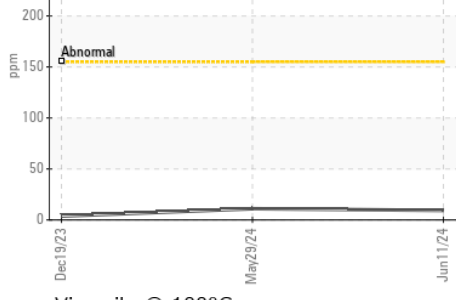
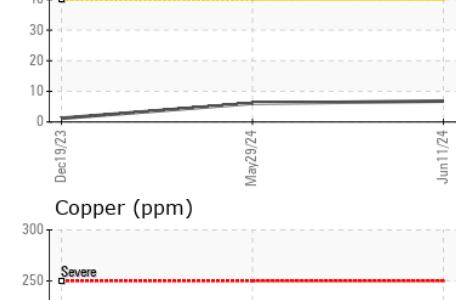
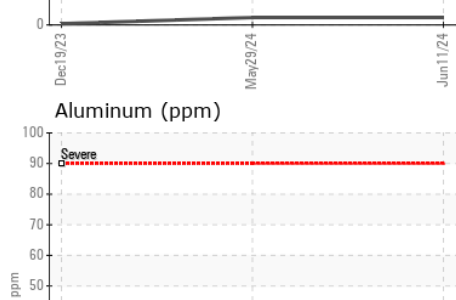
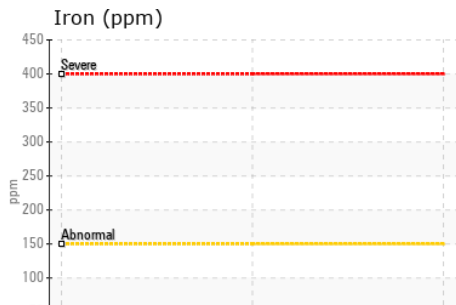
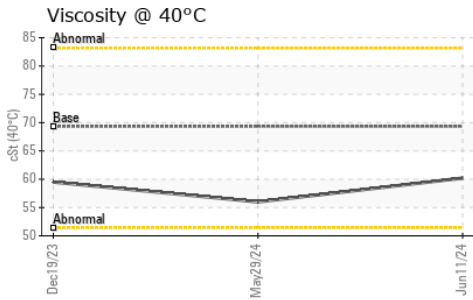
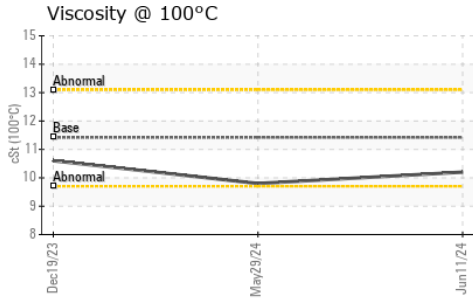
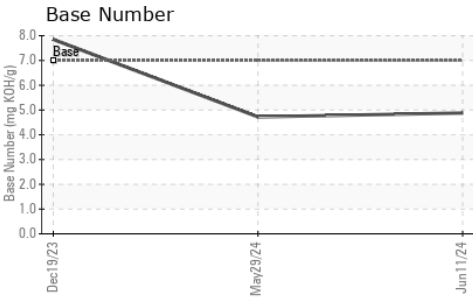
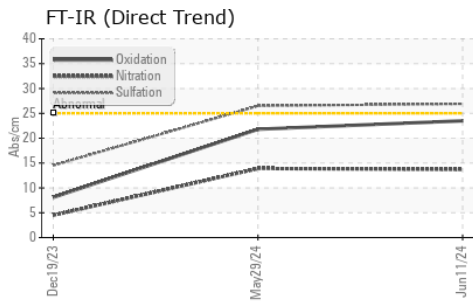
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>36</b>	37	21
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.7</b>	13.9	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.9</b>	26.5	14.5
Silt	scalar	Visual*	NONE	<b>VLITE</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*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>400	<b>5</b>	6	2
Boron	ppm	ASTM D5185(m)	186	<b>27</b>	32	171
Barium	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	79	<b>72</b>	75	70
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	1	0
Magnesium	ppm	ASTM D5185(m)	578	<b>553</b>	474	471
Calcium	ppm	ASTM D5185(m)	1002	<b>1174</b>	1189	1129
Phosphorus	ppm	ASTM D5185(m)	745	<b>689</b>	619	595
Zinc	ppm	ASTM D5185(m)	837	<b>782</b>	696	668
Sulfur	ppm	ASTM D5185(m)	2502	<b>2199</b>	2149	2268
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.5</b>	21.8	8.1
Base Number (BN)	mg KOH/g	ASTM D2896*	7.0	<b>4.88</b>	4.72	7.85
Visc @ 40°C	cSt	ASTM D7279(m)	69.33	<b>60.2</b>	56.0	59.5
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	<b>10.2</b>	9.8	10.6
Viscosity Index (VI)	Scale	ASTM D2270*	159	<b>157</b>	161	169



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0085518  
**Lab Number** : 02642850  
**Unique Number** : 5800389  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**Petro-Canada Technical/Behshad Sabah**  
 Mississauga, ON  
 CA L5J 1K2  
 Contact: Behshad Sabah  
 Behshad.Sabah@hfsinclair.com  
 T: (905)716-2158  
 F: (905)403-6740

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.