

Machine Id  
**FORD 682 (S/N 1FM5K8ARXJGB11977)**  
Component  
**Gasoline Engine**  
Fluid  
**PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0123152</b>	PCA0117697	PCA0112899
Sample Date		Client Info		<b>28 May 2024</b>	19 Feb 2024	07 Dec 2023
Machine Age	mls	Client Info		<b>61447</b>	59303	57843
Oil Age	mls	Client Info		<b>2144</b>	1460	1548
Filter Age	mls	Client Info		<b>2144</b>	1460	1548
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>11</b>	9	4
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>155	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<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**

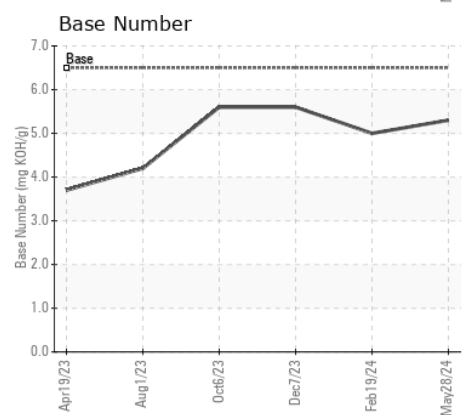
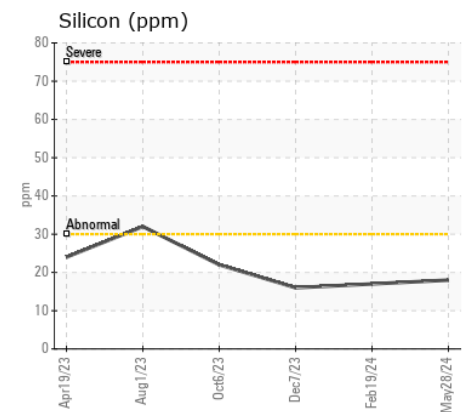
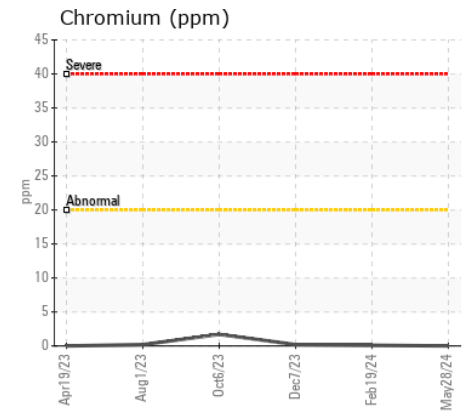
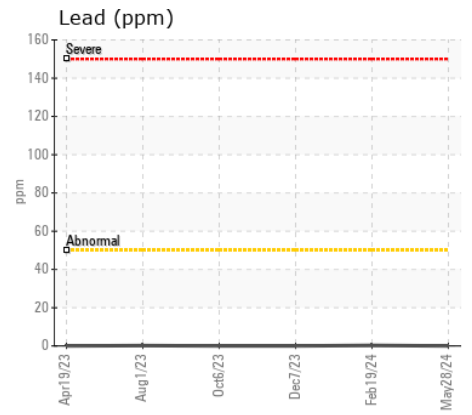
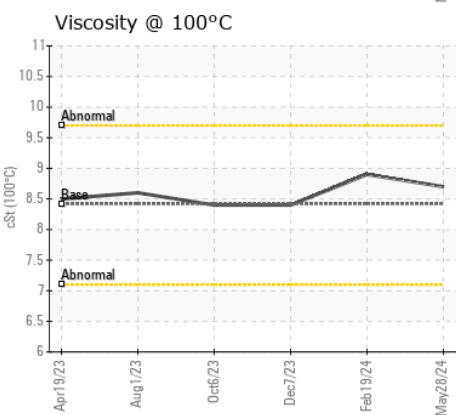
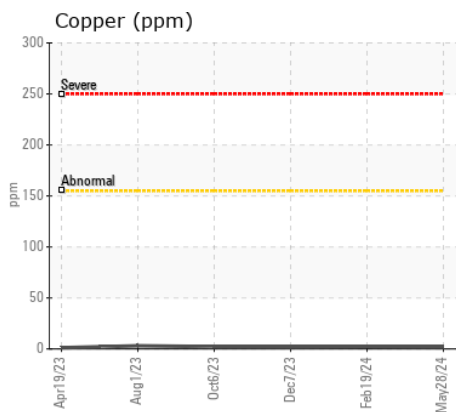
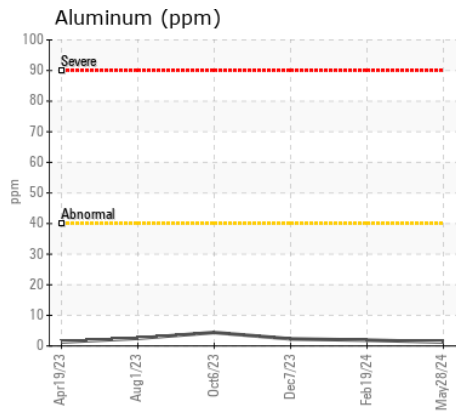
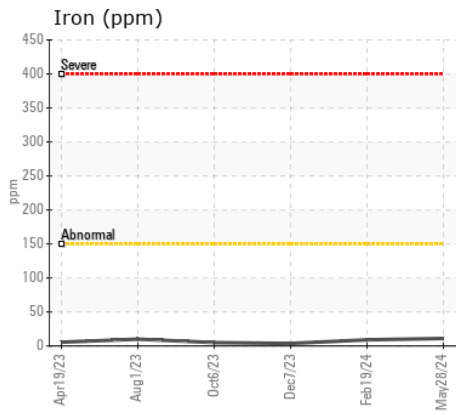
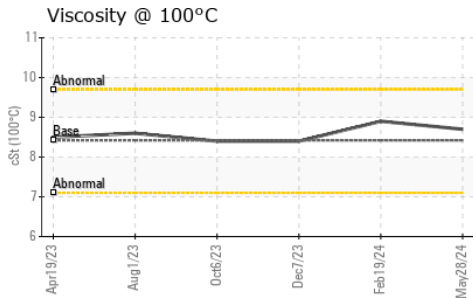
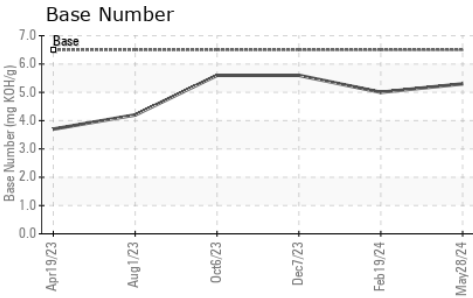
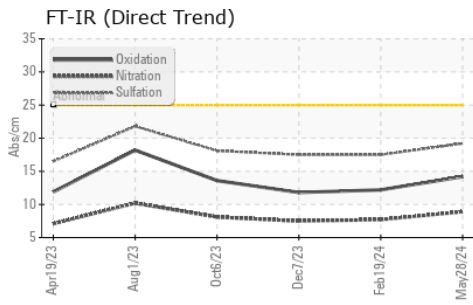
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>18</b>	17	16
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
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>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	7.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.2</b>	17.5	17.5
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**

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 D5185m	>400	<b>30</b>	3	4
Boron	ppm	ASTM D5185m	183	<b>63</b>	93	96
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	36	<b>66</b>	64	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	417	<b>614</b>	585	489
Calcium	ppm	ASTM D5185m	1318	<b>1298</b>	1141	1097
Phosphorus	ppm	ASTM D5185m	773	<b>762</b>	766	685
Zinc	ppm	ASTM D5185m	845	<b>897</b>	874	782
Sulfur	ppm	ASTM D5185m	2690	<b>3241</b>	2748	2921
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.2</b>	12.2	11.8
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	<b>5.3</b>	5.0	5.6
Visc @ 100°C	cSt	ASTM D445	8.42	<b>8.7</b>	8.9	8.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0123152 **Received** : 05 Jul 2024  
**Lab Number** : 06229536 **Tested** : 09 Jul 2024  
**Unique Number** : 11113029 **Diagnosed** : 09 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**VILLAGE OF NORTH RIVERSIDE**  
 2345 S DESPLAINES  
 NORTH RIVERSIDE, IL  
 US 60546  
 Contact: Service Manager  
 vnzrdpw@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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