



# OIL ANALYSIS REPORT

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

Machine Id  
**FORD 301 (S/N 1FM5K8ARZEGC13893)**

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>PCA0112905</b>	PCA0105357	PCA0105343
Sample Date		Client Info		<b>16 Jan 2024</b>	07 Nov 2023	05 Oct 2023
Machine Age	mls	Client Info		<b>114678</b>	111949	110256
Oil Age	mls	Client Info		<b>553</b>	1693	2239
Filter Age	mls	Client Info		<b>553</b>	1693	2239
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>&lt;1</b>	4	3
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	4
Lead	ppm	ASTM D5185m	>50	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>155	<b>1</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	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

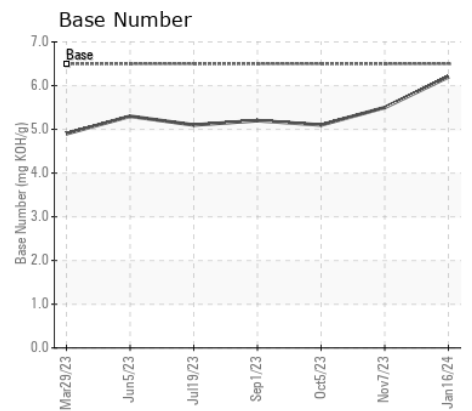
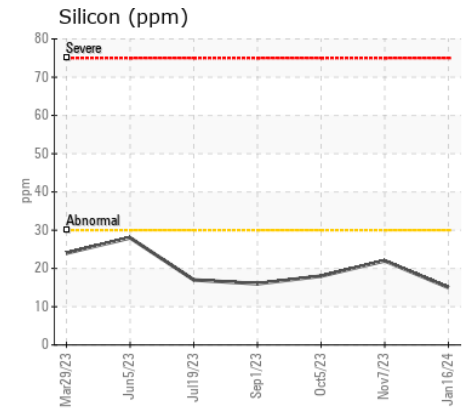
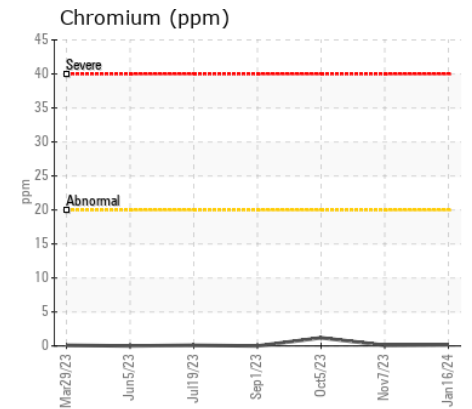
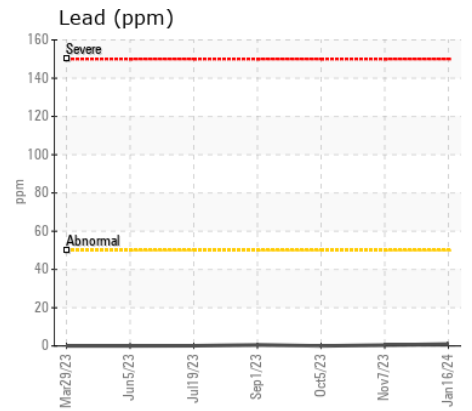
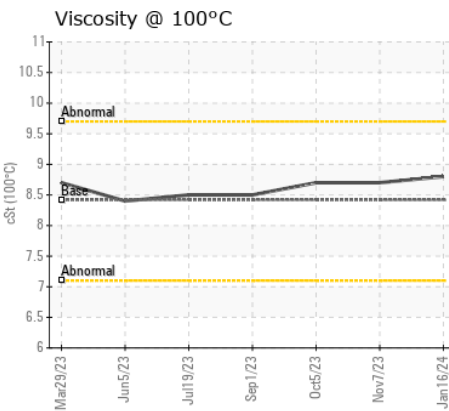
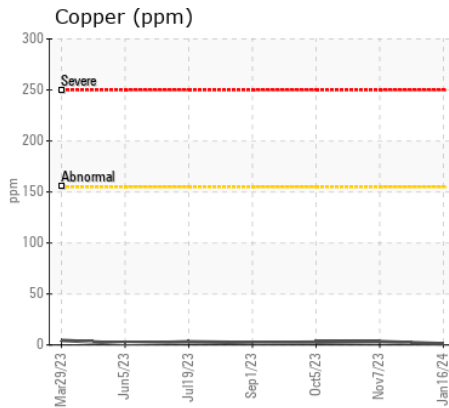
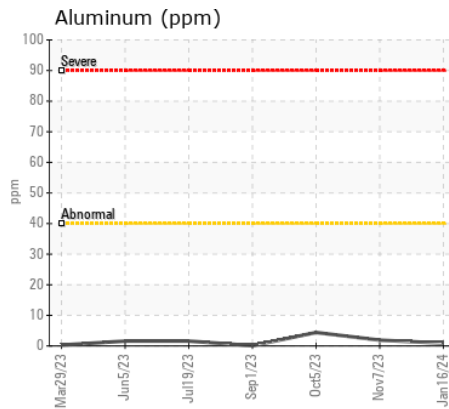
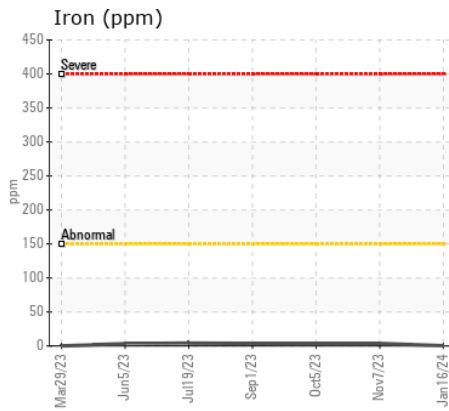
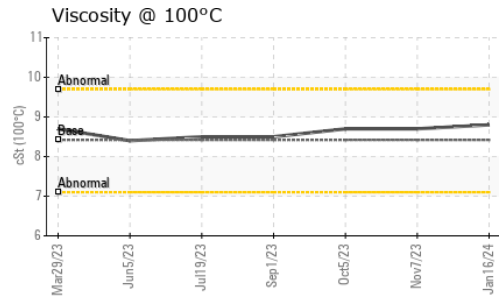
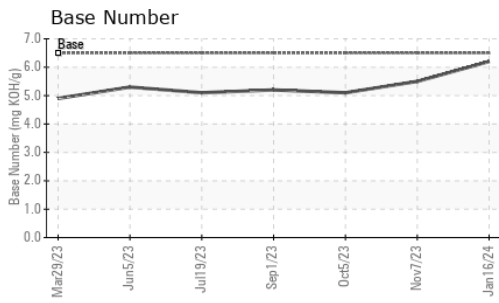
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>15</b>	22	18
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	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>6.4</b>	7.7	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.5</b>	18.6	19.2
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>1</b>	3	5
Boron	ppm	ASTM D5185m	183	<b>106</b>	68	36
Barium	ppm	ASTM D5185m	0	<b>0</b>	9	0
Molybdenum	ppm	ASTM D5185m	36	<b>66</b>	70	68
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	417	<b>556</b>	526	528
Calcium	ppm	ASTM D5185m	1318	<b>1094</b>	1247	1167
Phosphorus	ppm	ASTM D5185m	773	<b>709</b>	734	661
Zinc	ppm	ASTM D5185m	845	<b>818</b>	841	851
Sulfur	ppm	ASTM D5185m	2690	<b>2658</b>	3061	3173
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.7</b>	14.0	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	<b>6.2</b>	5.5	5.1
Visc @ 100°C	cSt	ASTM D445	8.42	<b>8.8</b>	8.7	8.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112905 **Received** : 01 Feb 2024  
**Lab Number** : 06077447 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10859538 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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)

**VILLAGE OF NORTH RIVERSIDE**  
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