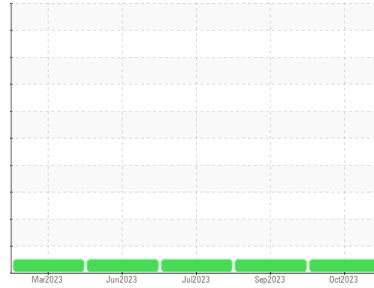


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FORD 616 (S/N 1FM5K8ARZEGC13893)**

Component  
**Gasoline Engine**

Fluid  
**PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### 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.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0105343</b>	PCA0100392	PCA0100376
Sample Date	Client Info		<b>05 Oct 2023</b>	01 Sep 2023	19 Jul 2023
Machine Age	mls	Client Info	<b>110256</b>	108017	105891
Oil Age	mls	Client Info	<b>2239</b>	2126	1826
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>3</b>	4	4
Chromium	ppm	ASTM D5185m >20	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>4</b>	<1	2
Lead	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >155	<b>3</b>	2	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 183	<b>36</b>	41	51
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 36	<b>68</b>	65	62
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 417	<b>528</b>	568	439
Calcium	ppm	ASTM D5185m 1318	<b>1167</b>	1297	1247
Phosphorus	ppm	ASTM D5185m 773	<b>661</b>	723	670
Zinc	ppm	ASTM D5185m 845	<b>851</b>	916	799
Sulfur	ppm	ASTM D5185m 2690	<b>3173</b>	2971	2766

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>18</b>	16	17
Sodium	ppm	ASTM D5185m >400	<b>5</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	<1

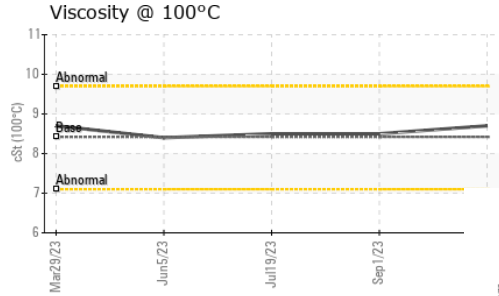
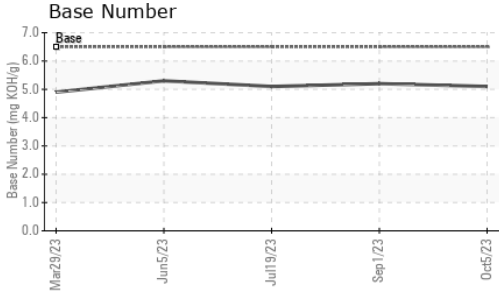
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.3</b>	8.8	8.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.2</b>	19.3	18.6

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.2</b>	15.8	14.1
Base Number (BN)	mg KOH/g	ASTM D2896 6.5	<b>5.1</b>	5.2	5.1

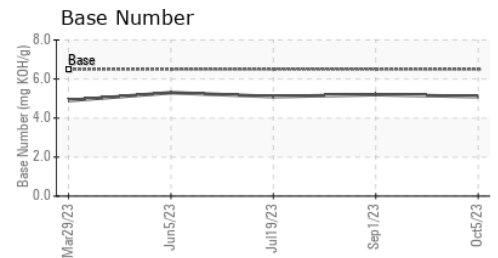
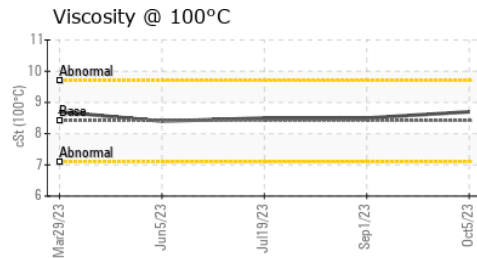
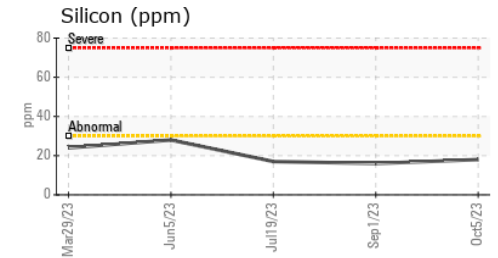
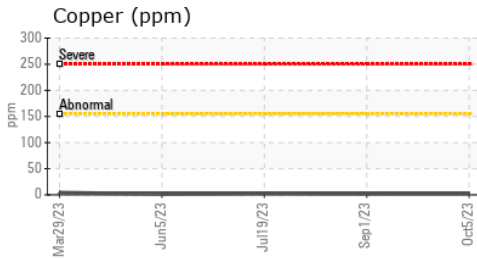
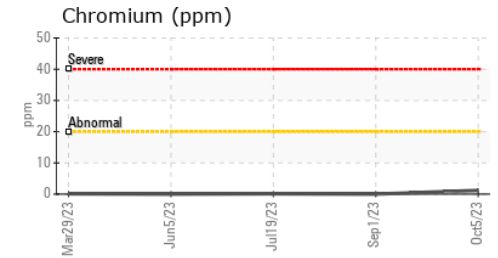
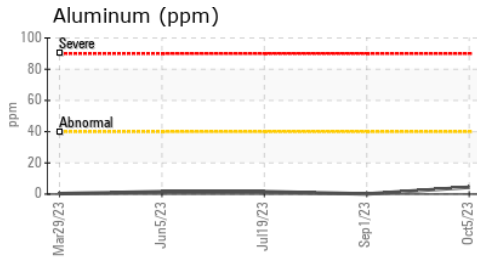
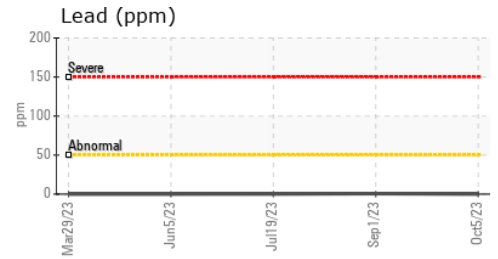
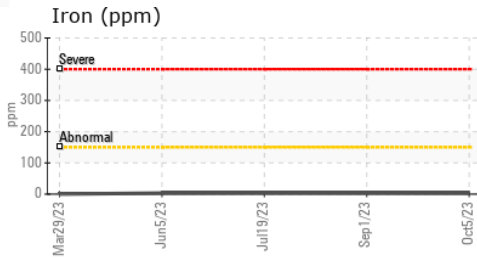
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	8.42	8.7	8.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105343 **Received** : 17 Oct 2023  
**Lab Number** : 05981857 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10699152 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**VILLAGE OF NORTH RIVERSIDE**  
 2345 S DESPLAINES  
 NORTH RIVERSIDE, IL  
 US 60546  
 Contact: Service Manager  
 vznrdpw@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)

T:  
F: