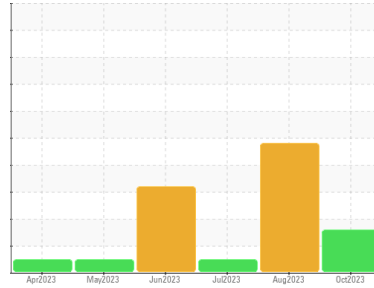


# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**FORD 618 (S/N 1FM5K8AR3GGC91635)**

Component  
**Gasoline Engine**

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

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal.

### 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>PCA0105352</b>	PCA0100390	PCA0100373
Sample Date	Client Info	<b>05 Oct 2023</b>	22 Aug 2023	19 Jul 2023
Machine Age	mls	<b>109433</b>	107820	106514
Oil Age	mls	<b>1613</b>	914	1719
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	SEVERE	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>4</b>	4	4
Chromium	ppm ASTM D5185m >20	<b>1</b>	0	0
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>5</b>	<1	1
Lead	ppm ASTM D5185m >50	<b>0</b>	<1	<1
Copper	ppm ASTM D5185m >155	<b>5</b>	2	4
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>44</b>	82	47
Barium	ppm ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm ASTM D5185m 36	<b>65</b>	70	67
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 417	<b>506</b>	577	508
Calcium	ppm ASTM D5185m 1318	<b>1103</b>	1031	1241
Phosphorus	ppm ASTM D5185m 773	<b>728</b>	729	693
Zinc	ppm ASTM D5185m 845	<b>797</b>	900	823
Sulfur	ppm ASTM D5185m 2690	<b>2721</b>	3141	2865

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	<b>▲ 36</b>	86	15
Sodium	ppm ASTM D5185m >400	<b>7</b>	11	6
Potassium	ppm ASTM D5185m >20	<b>6</b>	28	<1

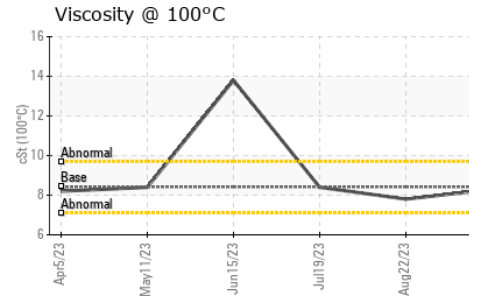
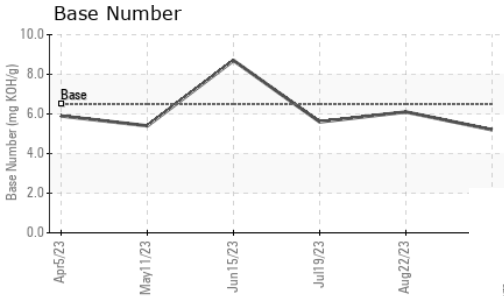
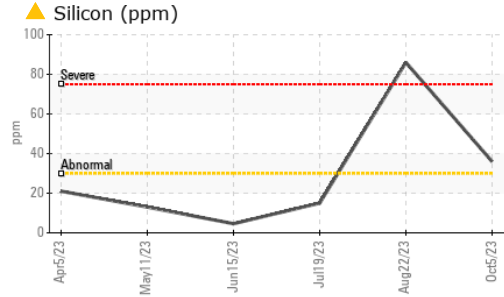
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>7.9</b>	6.9	8.5
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.3</b>	16.5	18.5

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.8</b>	10.4	14.2
Base Number (BN)	mg KOH/g ASTM D2896 6.5	<b>5.2</b>	6.1	5.6

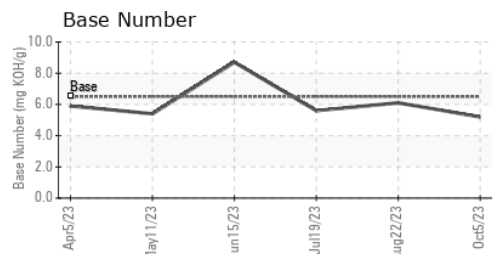
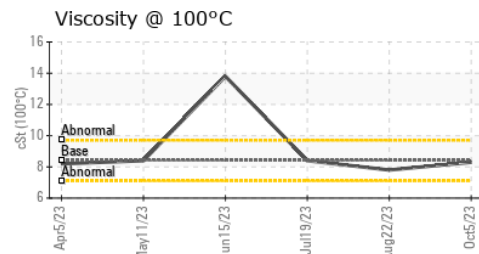
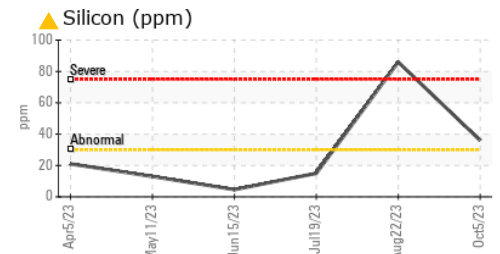
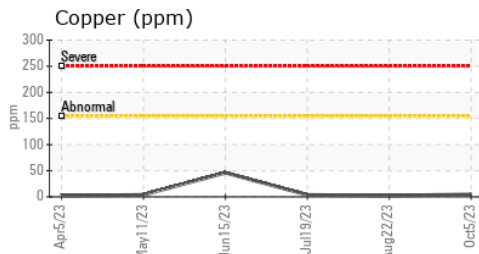
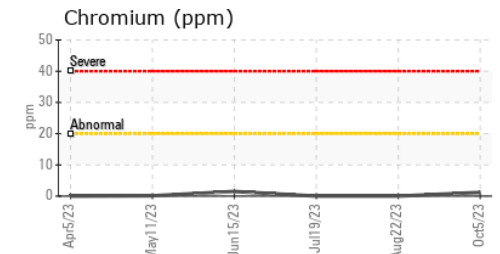
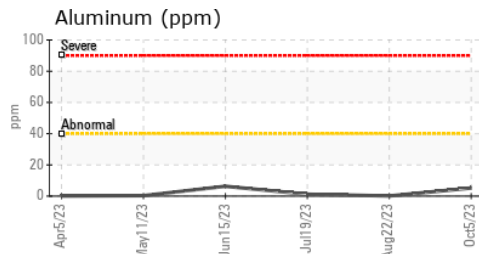
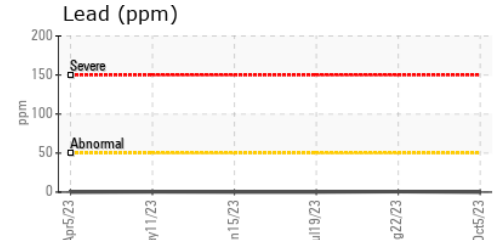
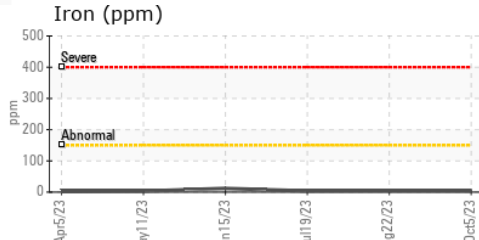
# OIL ANALYSIS REPORT



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	7.8	8.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105352 **Received** : 17 Oct 2023  
**Lab Number** : 05981854 **Diagnosed** : 19 Oct 2023  
**Unique Number** : 10699149 **Diagnostician** : Don Baldrige  
**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

Certificate L2367  
 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)