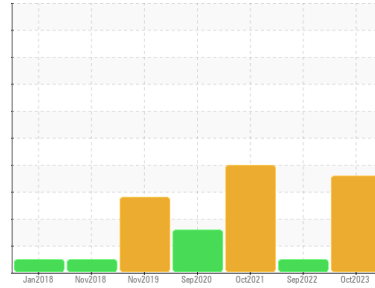


Machine Id  
**2015 JEEP CHRYSLER 2015 JEEP**  
Component  
**Gasoline Engine**  
Fluid  
**PETRO CANADA SUPREME SYNTHETIC XL 5W20 (6 QTS)**



## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of particulates present in the oil.

### ▲ Fluid Condition

The AN level is at the top-end of the recommended limit. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCAM26413</b>	PCAM26407	PCAM26408
Sample Date	Client Info	<b>31 Oct 2023</b>	29 Sep 2022	26 Oct 2021
Machine Age	mls	Client Info	118750	101040
Oil Age	mls	Client Info	17710	16933
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## 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>16</b>	20	20
Chromium	ppm ASTM D5185m >20	<b>1</b>	1	2
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>5</b>	7	8
Lead	ppm ASTM D5185m >50	<b>0</b>	0	2
Copper	ppm ASTM D5185m >155	<b>11</b>	12	16
Tin	ppm ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185m	<b>---</b>	---	2
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 220	<b>24</b>	28	29
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 77	<b>66</b>	70	71
Manganese	ppm ASTM D5185m	<b>1</b>	1	<1
Magnesium	ppm ASTM D5185m 8	<b>506</b>	520	703
Calcium	ppm ASTM D5185m 2167	<b>1193</b>	1287	1110
Phosphorus	ppm ASTM D5185m 770	<b>629</b>	655	608
Zinc	ppm ASTM D5185m 831	<b>828</b>	820	761
Sulfur	ppm ASTM D5185m 2591	<b>2657</b>	3184	2433

## CONTAMINANTS

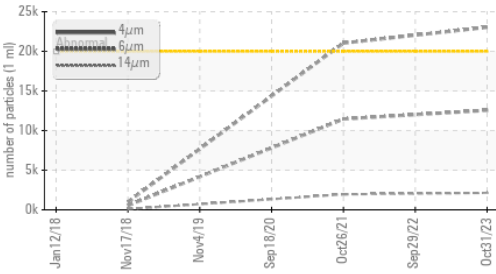
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	<b>25</b>	27	18
Sodium	ppm ASTM D5185m >400	<b>6</b>	3	4
Potassium	ppm ASTM D5185m >20	<b>5</b>	3	6

## INFRA-RED

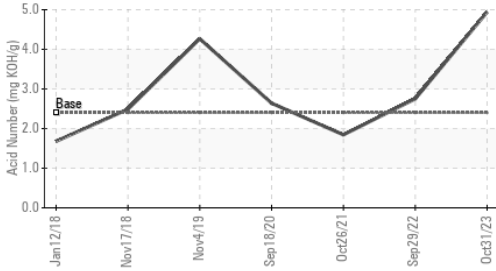
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>16.4</b>	18.9	19.1
Sulfation	Abs./1mm *ASTM D7415 >30	<b>38.6</b>	38.9	31.8

# OIL ANALYSIS REPORT

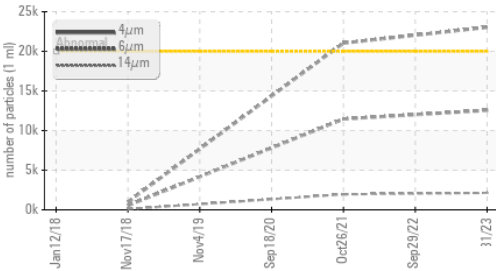
## ▲ Particle Trend



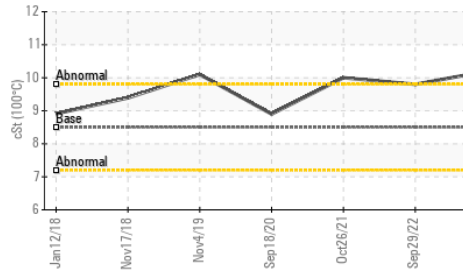
## ▲ Acid Number



## ▲ Particle Trend



## Viscosity @ 100°C



## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	▲ 23045	---	▲ 21036
Particles >6µm	ASTM D7647 >5000	▲ 12554	---	▲ 11459
Particles >14µm	ASTM D7647 >640	▲ 2137	---	▲ 1950
Particles >21µm	ASTM D7647 >160	▲ 720	---	▲ 657
Particles >38µm	ASTM D7647 >40	▲ 111	---	▲ 101
Particles >71µm	ASTM D7647 >10	▲ 11	---	▲ 10
Oil Cleanliness	ISO 4406 (c) >21/19/16	▲ 22/21/18	---	▲ 22/21/18

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs./1mm	*ASTM D7414 >25	35.9	37.5	35.6
Acid Number (AN) mg KOH/g	ASTM D8045 2.4	▲ 4.94	2.752	1.843

## VISUAL

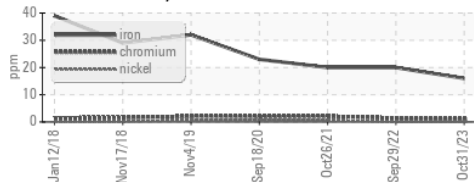
method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal scalar	*Visual NONE	NONE	NONE	NONE
Precipitate scalar	*Visual NONE	NONE	NONE	NONE
Silt scalar	*Visual NONE	NONE	NONE	NONE
Debris scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt scalar	*Visual NONE	NONE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

## FLUID PROPERTIES

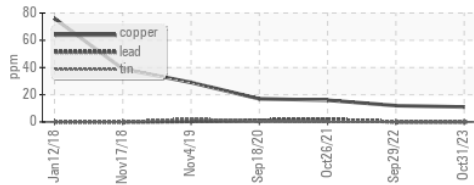
method	limit/base	current	history1	history2
Visc @ 100°C cSt	ASTM D445 8.5	10.2	9.8	10.0

## GRAPHS

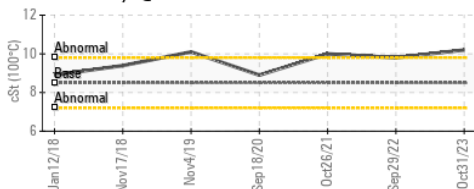
### Ferrous Alloys



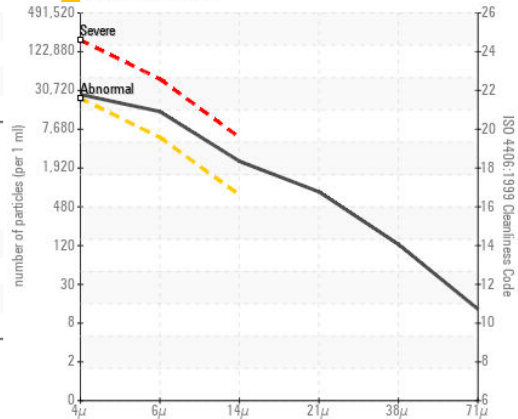
### Non-ferrous Metals



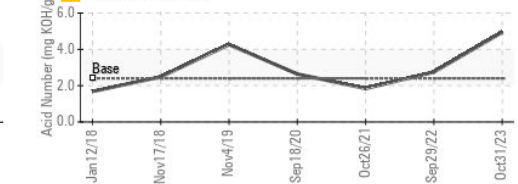
### Viscosity @ 100°C



### ▲ Particle Count



### ▲ Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCAM26413  
**Lab Number** : 06000007  
**Unique Number** : 10728367  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**MANNY GARCIA**  
 149 HUNTINGTON RIDGE PLACE  
 MOORESVILLE, NC  
 US 28115  
 Contact: MANNY GARCIA

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: (954)384-7259

F: