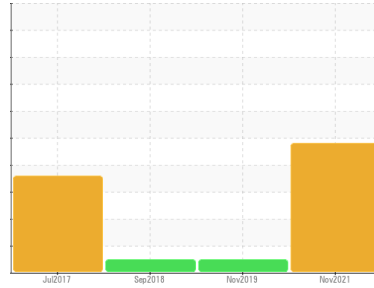




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
2007 Camry

Component
Gasoline Engine

Fluid
PENNZOIL PLATNIUM FULL SYNTHETIC 5W30 (6 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a light concentration of glycol present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0763969	PP	WC
Sample Date	Client Info		28 Nov 2021	10 Nov 2019	16 Sep 2018
Machine Age	hrs	Client Info	255600	231900	214000
Oil Age	hrs	Client Info	15600	17900	19000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>150	17	27	21
Chromium	ppm	ASTM D5185(m)	>20	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	3	6	5
Lead	ppm	ASTM D5185(m)	>50	<1	0	<1
Copper	ppm	ASTM D5185(m)	>155	1	2	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		37	29	29
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		70	75	70
Manganese	ppm	ASTM D5185(m)		<1	1	2
Magnesium	ppm	ASTM D5185(m)		625	713	669
Calcium	ppm	ASTM D5185(m)		996	1105	1121
Phosphorus	ppm	ASTM D5185(m)		570	639	669
Zinc	ppm	ASTM D5185(m)		613	758	799
Sulfur	ppm	ASTM D5185(m)		2290	1805	1844
Lithium	ppm	ASTM D5185(m)		<1	<1	0

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	18	26	22
Sodium	ppm	ASTM D5185(m)	>400	▲ 71	34	39
Potassium	ppm	ASTM D5185(m)	>20	▲ 74	10	8
Glycol	%	ASTM D7922*		▲ 0.013	0.0	0.0

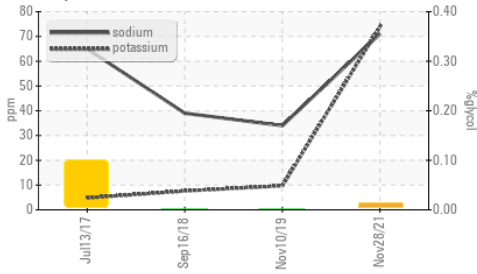
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	14.9	20.5	18.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.8	34.0	29.2

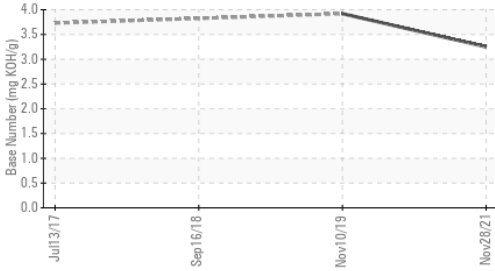


OIL ANALYSIS REPORT

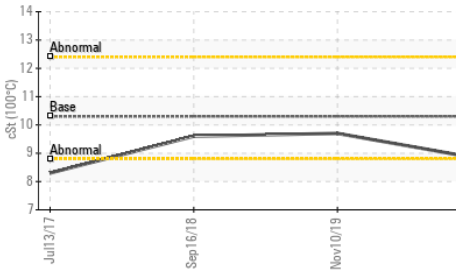
▲ Glycol Contamination



Base Number



Viscosity @ 100°C



FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	23.5	32.2	28.2
Base Number (BN)	mg KOH/g ASTM D2896*	3.25	3.92	---	---

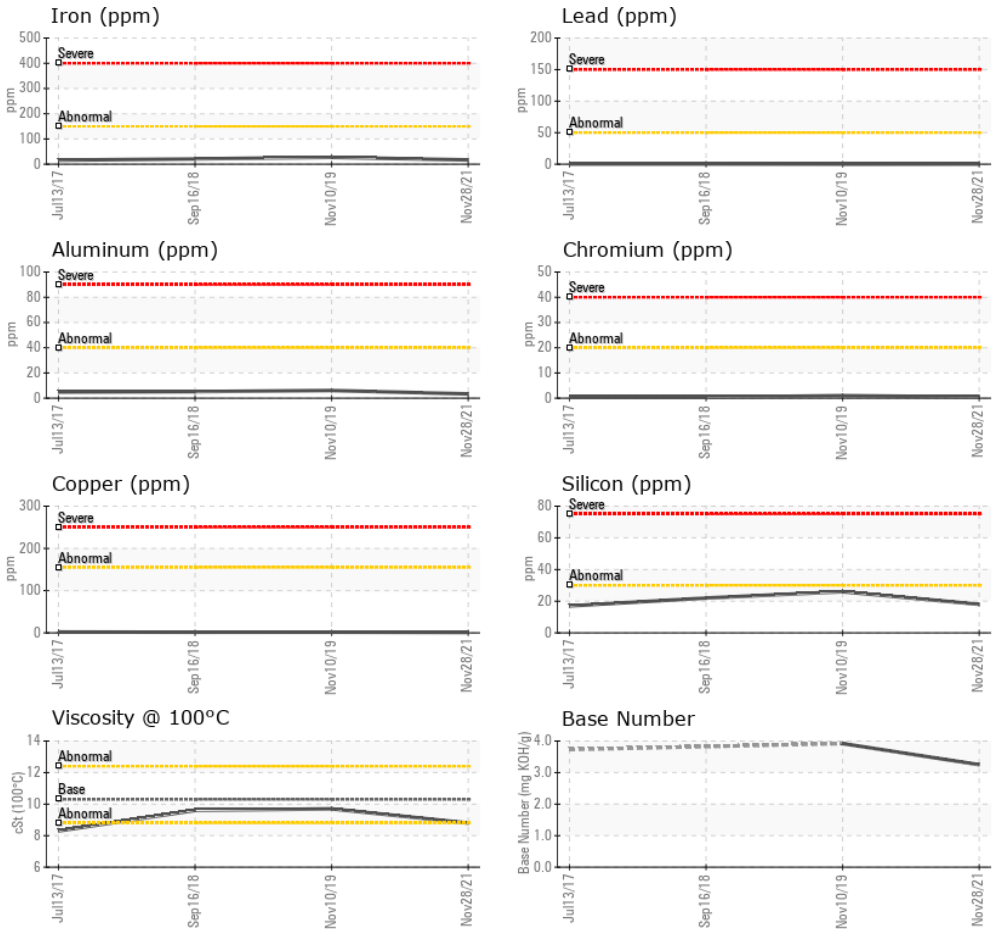
VISUAL

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

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	10.3	8.8	9.7	9.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0763969 **Received** : 23 Aug 2023
Lab Number : 02577704 **Diagnosed** : 25 Aug 2023
Unique Number : 5630764 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.