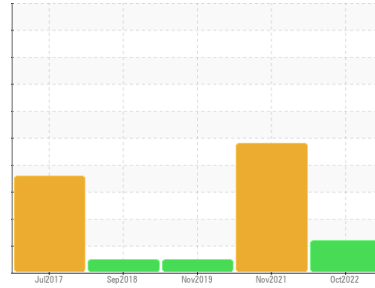




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
2007 Camry

Component
Gasoline Engine

Fluid
PENNZOIL PLATNIUM FULL SYNTHETIC 5W30 (6 LTR)

DIAGNOSIS

▲ Recommendation

Check for low coolant level. 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

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0763970	WC0763969	PP
Sample Date	Client Info		24 Oct 2022	28 Nov 2021	10 Nov 2019
Machine Age	hrs	Client Info	267900	255600	231900
Oil Age	hrs	Client Info	12300	15600	17900
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	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	22	17	27
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		2	1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	4	3	6
Lead	ppm	ASTM D5185(m)	>50	<1	<1	0
Copper	ppm	ASTM D5185(m)	>155	1	1	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		29	37	29
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		74	70	75
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)		635	625	713
Calcium	ppm	ASTM D5185(m)		900	996	1105
Phosphorus	ppm	ASTM D5185(m)		511	570	639
Zinc	ppm	ASTM D5185(m)		557	613	758
Sulfur	ppm	ASTM D5185(m)		2586	2290	1805
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

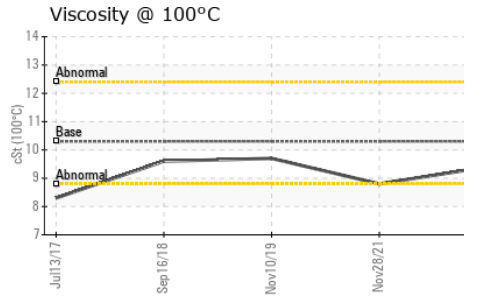
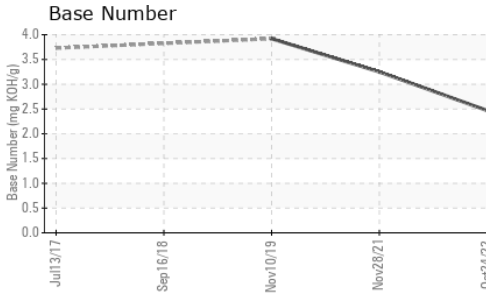
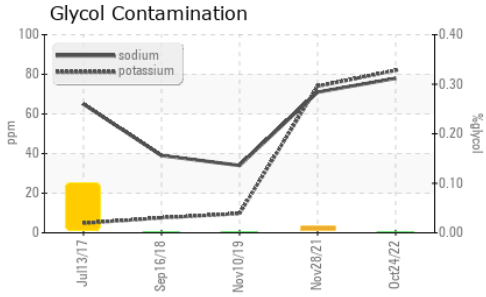
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Silicon	ppm	ASTM D5185(m)	>30	19	18	26
Sodium	ppm	ASTM D5185(m)	>400	78	▲ 71	34
Potassium	ppm	ASTM D5185(m)	>20	▲ 82	▲ 74	10
Glycol	%	ASTM D7922*		0.0	▲ 0.013	0.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	14.6	14.9	20.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.0	28.8	34.0



OIL ANALYSIS REPORT

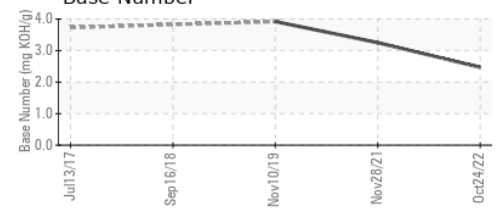
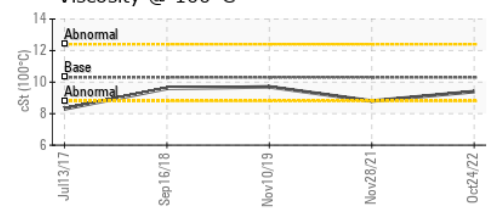
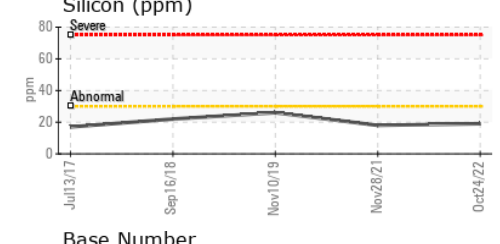
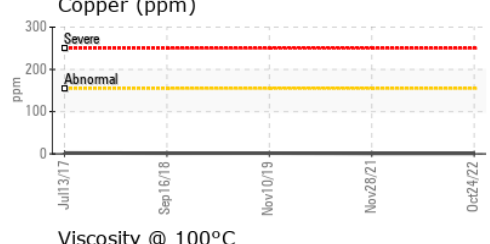
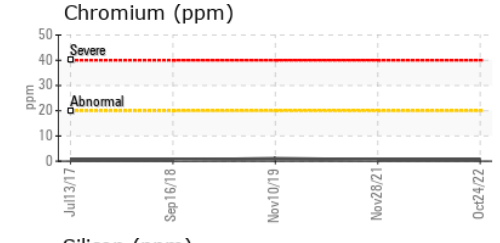
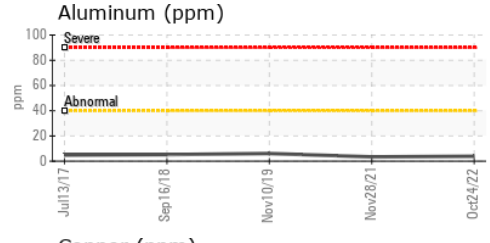
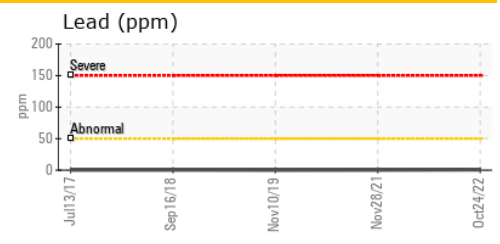
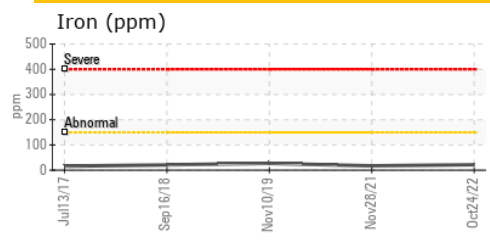


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	25.8	23.5	32.2
Base Number (BN)	mg KOH/g	ASTM D2896*		2.47	3.25	3.92

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	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	9.4	8.8	9.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0763970 **Received** : 23 Aug 2023
Lab Number : 02577705 **Diagnosed** : 25 Aug 2023
Unique Number : 5630765 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

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 CA L9L 1G7
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 meadows.brent@gmail.com
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 F: x:

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.