



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
SUBARU IN0104856
Component
Front Gasoline Engine
Fluid
PENNZOIL PLATNIUM FULL SYNTHETIC 5W30 (--- GAL)

RECOMMENDATION

We recommend an early resample to confirm this situation, however, a minimum of 10 hours, 500 miles or 800 kilometers on the oil is required before resampling to prevent false glycol reactions that can be experienced with new oil. NOTE: Although the glycol test was positive other chemicals other than anti-freeze can cause a similar reaction including the oil additive package, or supplemental oil additives. As there is insufficient evidence (such as high wear metals, or the presence of water) to indicate a serious leak, no other maintenance actions, aside from those recommended here, should be carried out at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC959771	---	---
Sample Date		Client Info		25 May 2016	---	---
Machine Age	kms	Client Info		235406	---	---
Oil Age	kms	Client Info		1400	---	---
Filter Age	kms	Client Info		1400	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	3	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>40	2	---	---
Lead	ppm	ASTM D5185(m)	>50	<1	---	---
Copper	ppm	ASTM D5185(m)	>155	3	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

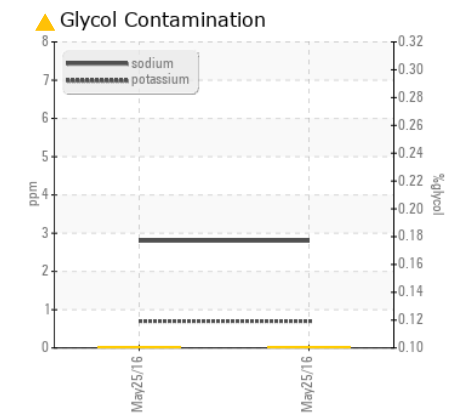
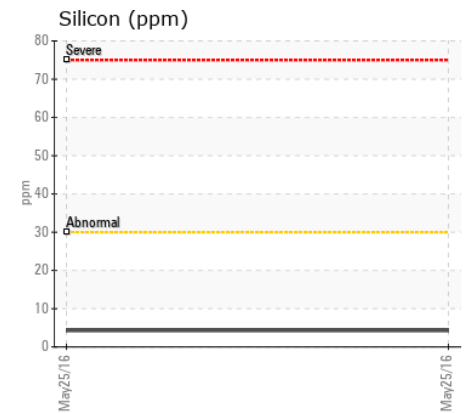
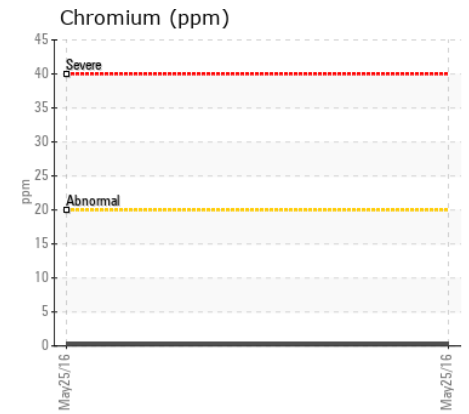
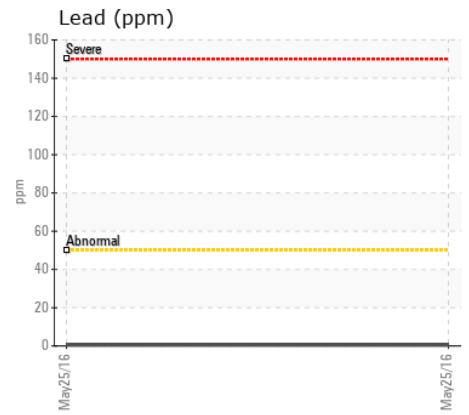
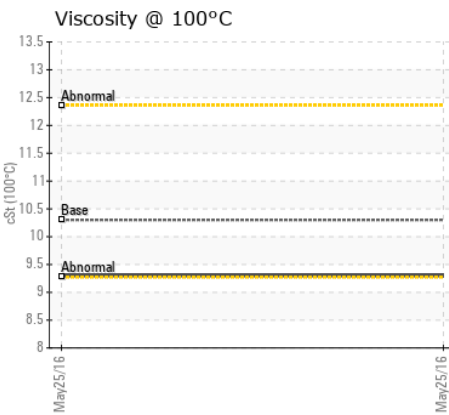
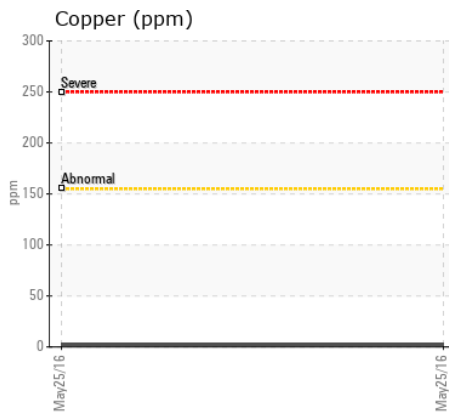
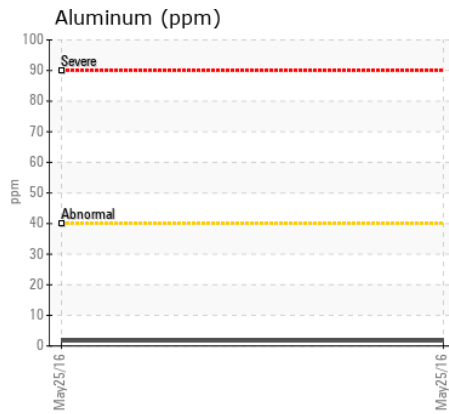
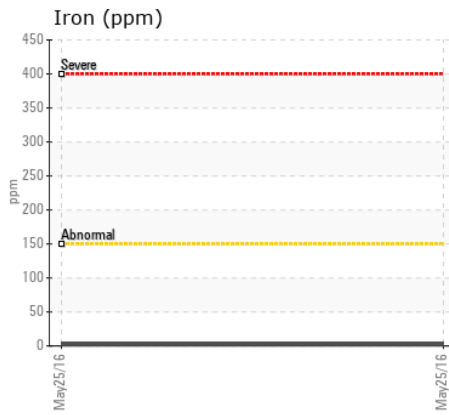
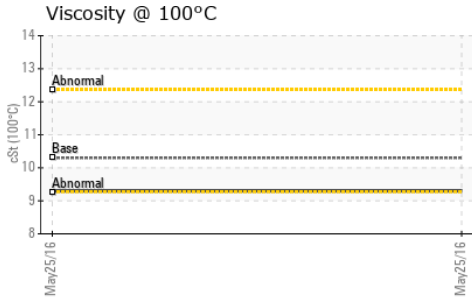
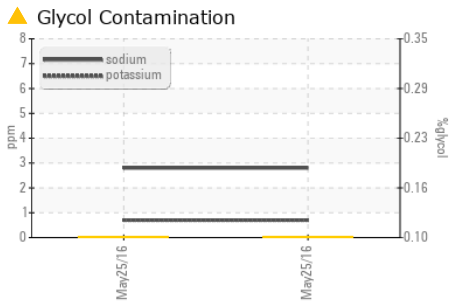
Test for glycol is positive.

Silicon	ppm	ASTM D5185(m)	>30	4	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		▲ 0.10	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		8.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*		21.8	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>400	3	---	---
Boron	ppm	ASTM D5185(m)		1	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		46	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		22	---	---
Calcium	ppm	ASTM D5185(m)		2254	---	---
Phosphorus	ppm	ASTM D5185(m)		668	---	---
Zinc	ppm	ASTM D5185(m)		778	---	---
Sulfur	ppm	ASTM D5185(m)		2068	---	---
Oxidation	Abs/.1mm	ASTM D7414*		14.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.3	9.3	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC959771 **Received** : 01 Jun 2016
Lab Number : 02075361 **Tested** : 01 Jun 2016
Unique Number : 4317685 **Diagnosed** : 02 Jun 2016 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

Jovito Pamarang
 Heritage Meadows, 51-1108 Riverside Close
 Port Coquitlam, BC
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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.

T:
F: