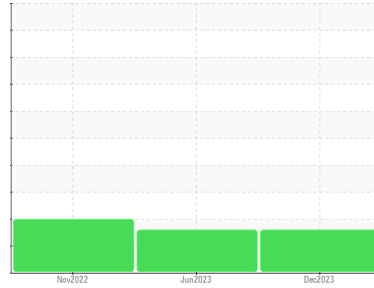


Machine Id  
**ACURA 2023 ACURA INTEGRA**  
Component  
**Front Gasoline Engine**  
Fluid  
**PETRO CANADA SUPREME SYNTHETIC 0W20 (--- GAL)**



**DIAGNOSIS**

**Recommendation**  
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**  
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

**Fluid Condition**  
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0011515</b>	PC0010928	PC0011519
Sample Date	Client Info			<b>01 Dec 2023</b>	02 Jun 2023	18 Nov 2022
Machine Age	kms	Client Info		<b>20788</b>	13995	8152
Oil Age	kms	Client Info		<b>9793</b>	5843	8152
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>6</b>	8	20
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>12</b>	19	24
Lead	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>155	<b>3</b>	6	23
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

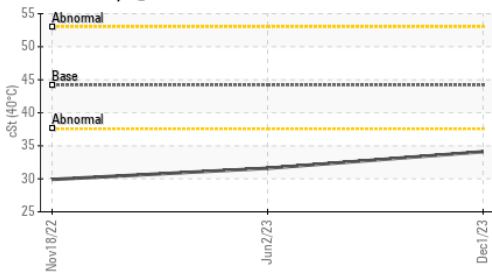
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	230	<b>110</b>	128	141
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185(m)	74	<b>81</b>	134	514
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	2	6
Magnesium	ppm	ASTM D5185(m)	556	<b>455</b>	440	74
Calcium	ppm	ASTM D5185(m)	1293	<b>1310</b>	1319	1625
Phosphorus	ppm	ASTM D5185(m)	833	<b>659</b>	710	644
Zinc	ppm	ASTM D5185(m)	808	<b>749</b>	721	661
Sulfur	ppm	ASTM D5185(m)	2676	<b>2350</b>	2370	2048
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<b>17</b>	35	125
Sodium	ppm	ASTM D5185(m)	>400	<b>2</b>	3	12
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	4	8
Fuel	%	ASTM D7593*	>4.0	<b>▲ 5.8</b>	▲ 6.7	▲ 4.2

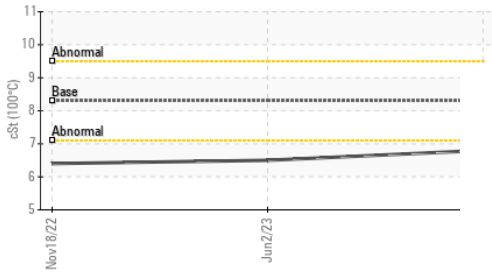
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	8.4	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	19.6	25.6

# OIL ANALYSIS REPORT

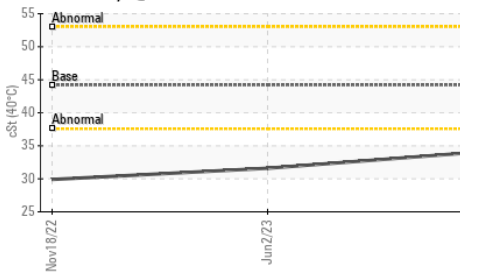
▲ Viscosity @ 40°C



▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



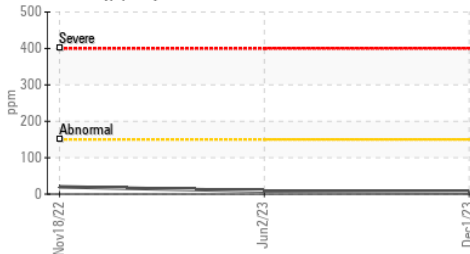
FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	11.4	11.6	19.0

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

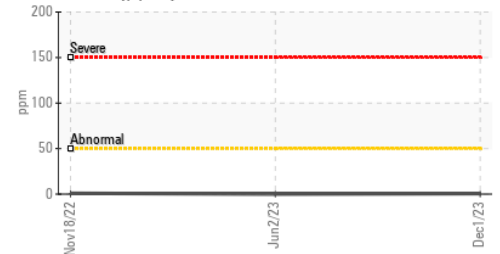
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	44.2	▲ 34.1	▲ 31.6	▲ 29.9
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	▲ 6.8	6.5	▲ 6.4
Viscosity Index (VI)	Scale	ASTM D2270*	164	162	▲ 165	▲ 174

## GRAPHS

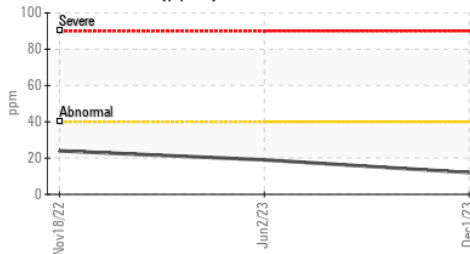
Iron (ppm)



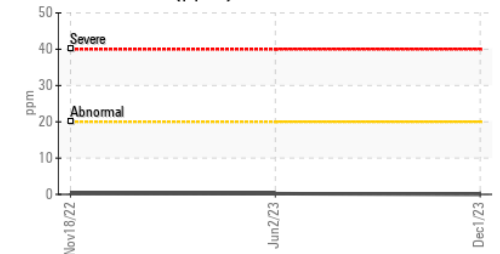
Lead (ppm)



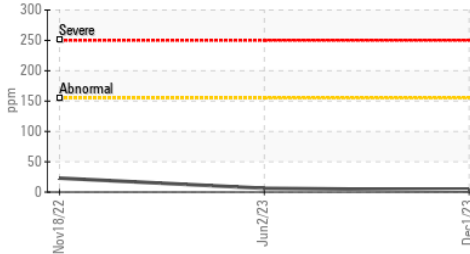
Aluminum (ppm)



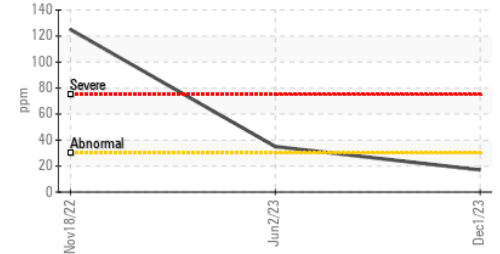
Chromium (ppm)



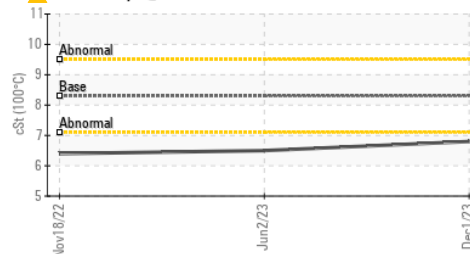
Copper (ppm)



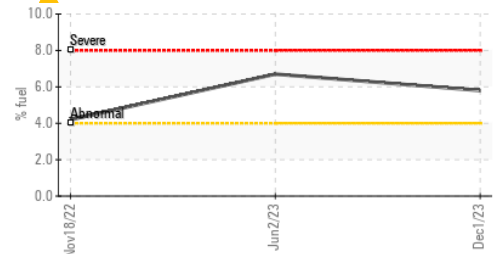
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0011515 **Received** : 18 Dec 2023  
**Lab Number** : 02603774 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 5696859 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV40, PercentFuel, VI )

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.

**BRIAN WHITE**  
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 HALIFAX, NS  
 CA B3S 1N4  
 Contact: Brian White  
 carlina8250@gmail.com

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F: