



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[84365]

Machine Id
325 ADDISON HALL CIR AURORA AVISON YOUNG AVISON YOUNG

Component
Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (35 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005782	PN0005695	---
Sample Date		Client Info		09 Feb 2024	09 Feb 2024	---
Machine Age	hrs	Client Info		24	24	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	6	6	---
Chromium	ppm	ASTM D5185(m)	>11	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>31	7	9	---
Lead	ppm	ASTM D5185(m)	>26	1	2	---
Copper	ppm	ASTM D5185(m)	>26	4	4	---
Tin	ppm	ASTM D5185(m)	>4	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

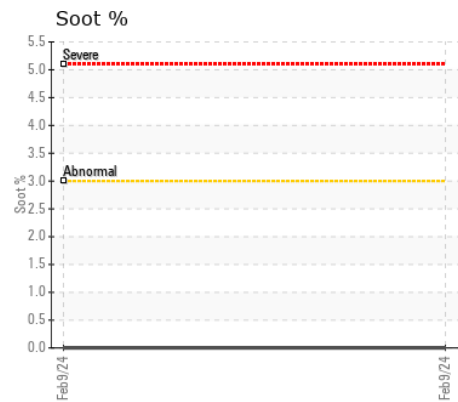
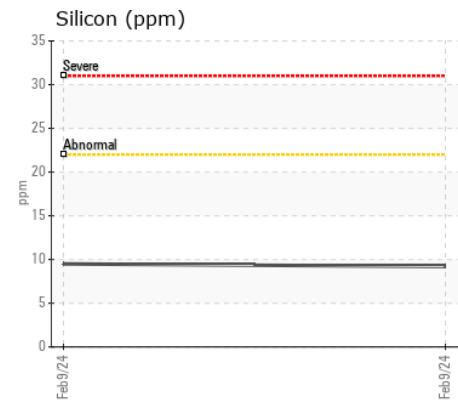
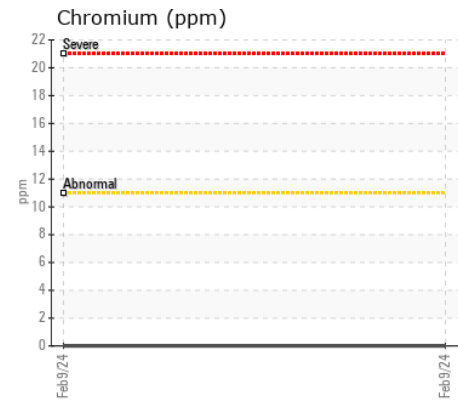
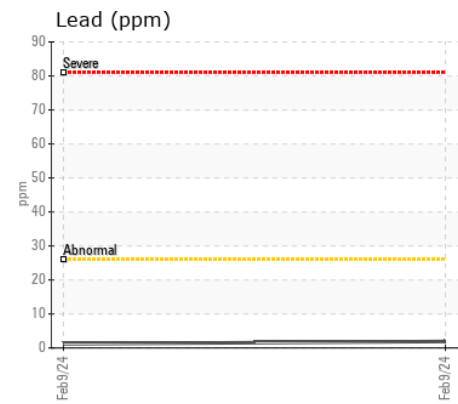
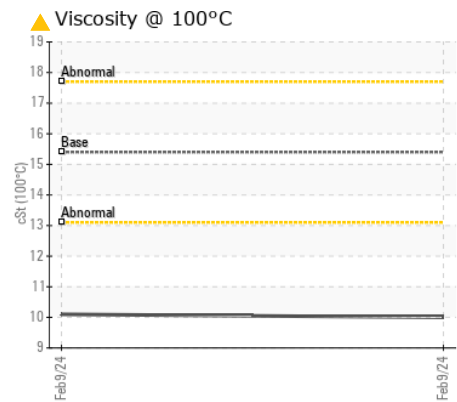
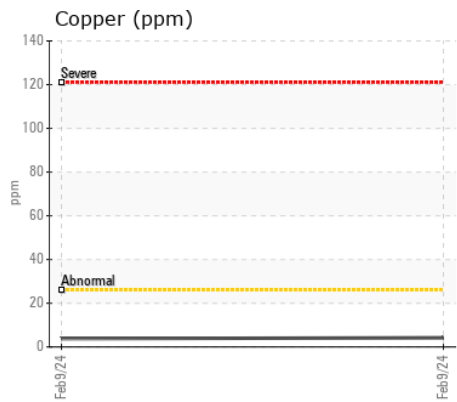
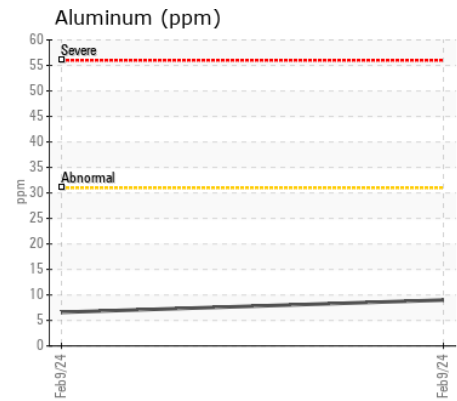
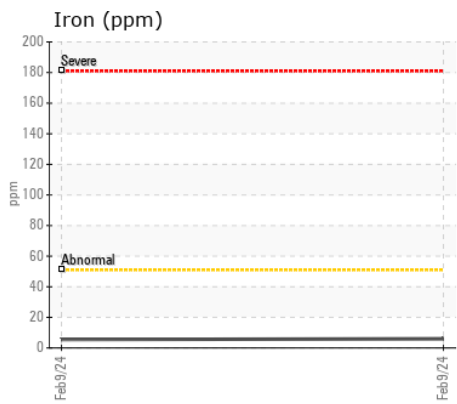
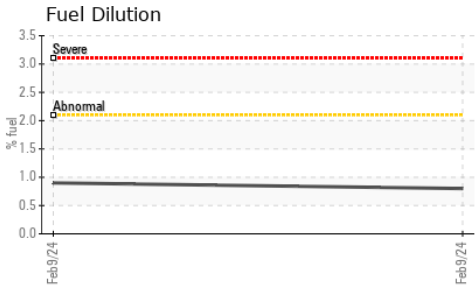
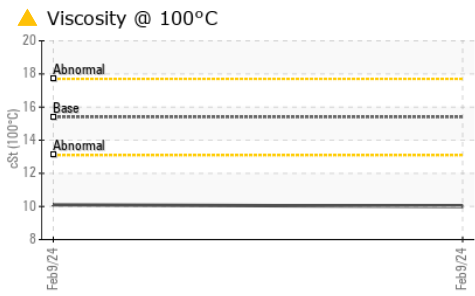
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	10	9	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Fuel	%	ASTM D7593*	>2.1	0.8	0.9	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.0	5.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	20.0	---
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*	>0.21	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	2	2	---
Boron	ppm	ASTM D5185(m)		250	249	---
Barium	ppm	ASTM D5185(m)		2	<1	---
Molybdenum	ppm	ASTM D5185(m)		255	257	---
Manganese	ppm	ASTM D5185(m)		1	1	---
Magnesium	ppm	ASTM D5185(m)		800	805	---
Calcium	ppm	ASTM D5185(m)	3780	1395	1365	---
Phosphorus	ppm	ASTM D5185(m)	1370	902	900	---
Zinc	ppm	ASTM D5185(m)	1500	990	980	---
Sulfur	ppm	ASTM D5185(m)	3800	2700	2689	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	14.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.0	▲ 10.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005782 **Received** : 15 Feb 2024
Lab Number : 02615917 **Tested** : 16 Feb 2024
Unique Number : 5733027 **Diagnosed** : 16 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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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.