



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
44 MILL ST TOTTENHAM NEW TECUMSEH 3001252607
 Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005653	PN0003193	PN0001881
Sample Date		Client Info		10 Jan 2024	07 Jan 2022	08 Dec 2020
Machine Age	hrs	Client Info		106	80	73
Oil Age	hrs	Client Info		10	0	0
Filter Age	hrs	Client Info		10	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	3	3	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	5	17
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	0
White Metal	scalar	Visual*	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

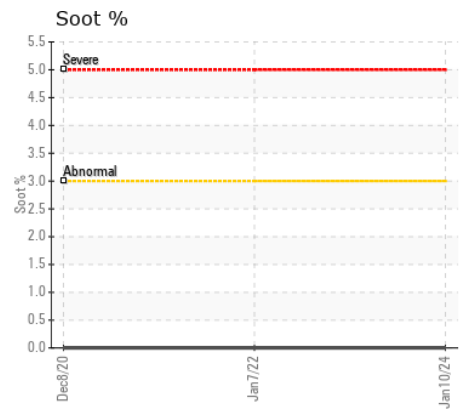
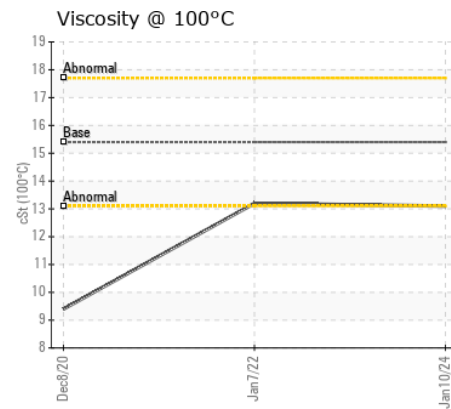
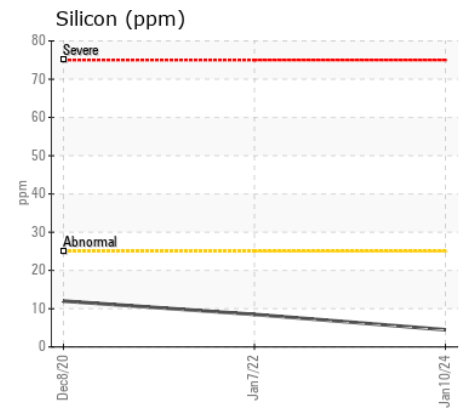
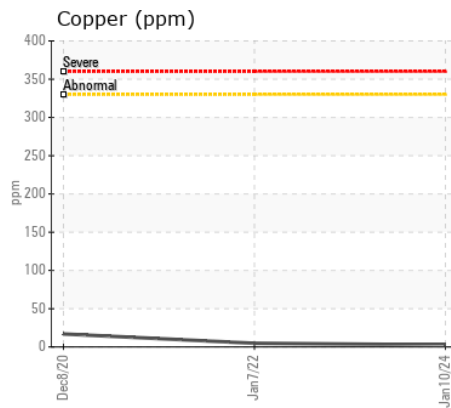
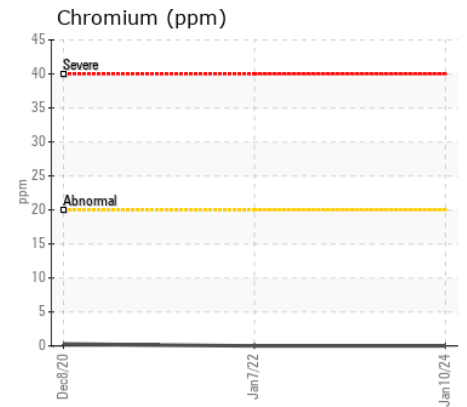
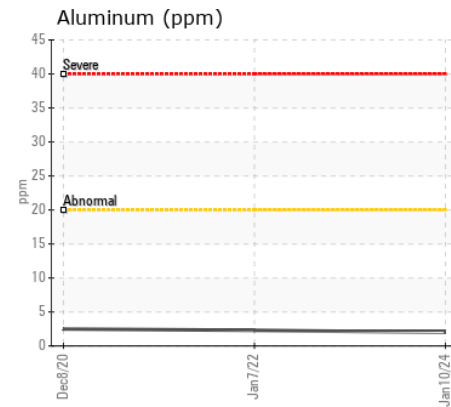
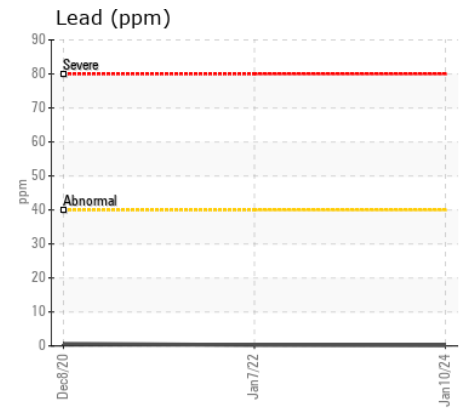
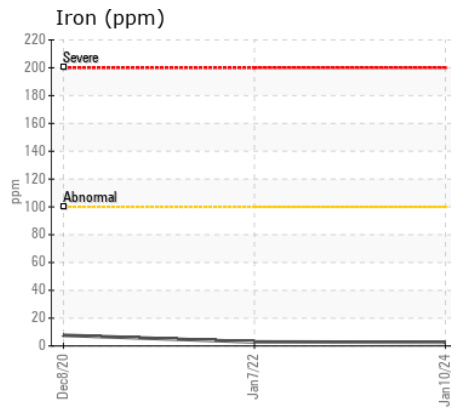
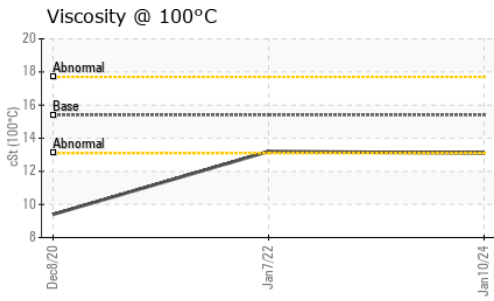
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	12
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.4	3.8	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.4	13.6	16.8
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	2	3	3
Boron	ppm	ASTM D5185(m)		56	87	123
Barium	ppm	ASTM D5185(m)		<1	<1	4
Molybdenum	ppm	ASTM D5185(m)		23	81	45
Manganese	ppm	ASTM D5185(m)		4	8	26
Magnesium	ppm	ASTM D5185(m)		142	80	311
Calcium	ppm	ASTM D5185(m)	3780	2065	2061	1573
Phosphorus	ppm	ASTM D5185(m)	1370	1018	1017	706
Zinc	ppm	ASTM D5185(m)	1500	1136	1140	853
Sulfur	ppm	ASTM D5185(m)	3800	3330	3202	2655
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.2	6.3	9.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.1	13.2	▲ 9.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005653 **Received** : 19 Jan 2024
Lab Number : 02609944 **Diagnosed** : 19 Jan 2024
Unique Number : 5711030 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: 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.