



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1563 QUEENSVILLE SIDE RD #64-5504180 U171508L U171508L

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006086	PN0004519	PN0003569
Sample Date		Client Info		29 Apr 2024	23 Jan 2023	05 Apr 2022
Machine Age	hrs	Client Info		226	214	210
Oil Age	hrs	Client Info		12	4	0
Filter Age	hrs	Client Info		12	4	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	1	1	1
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>35	<1	3	3
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm	ASTM D5185(m)	>60	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

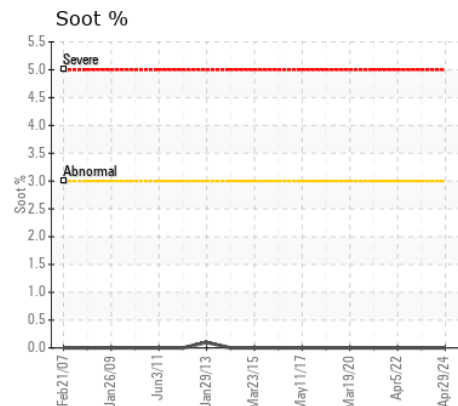
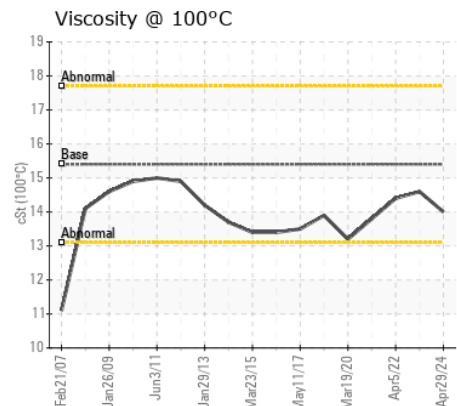
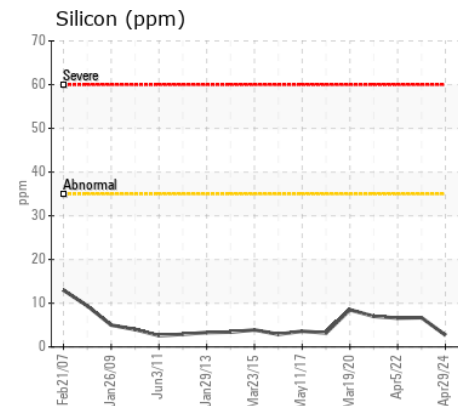
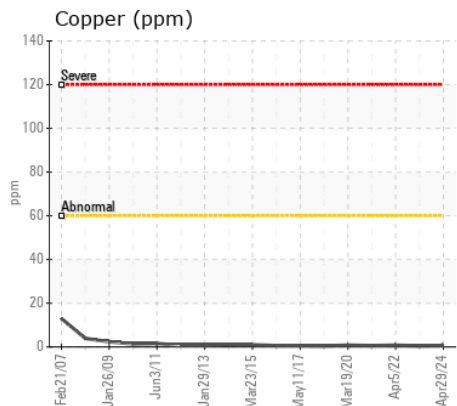
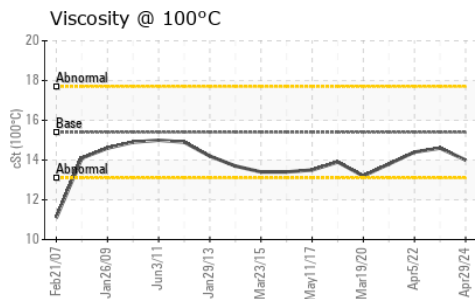
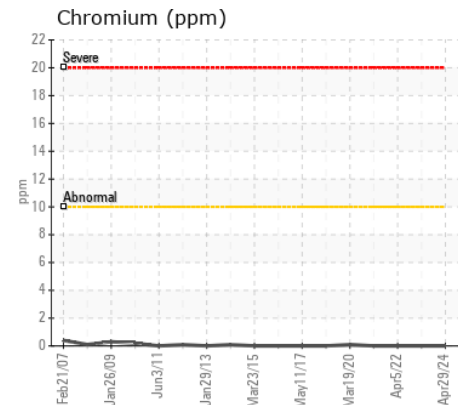
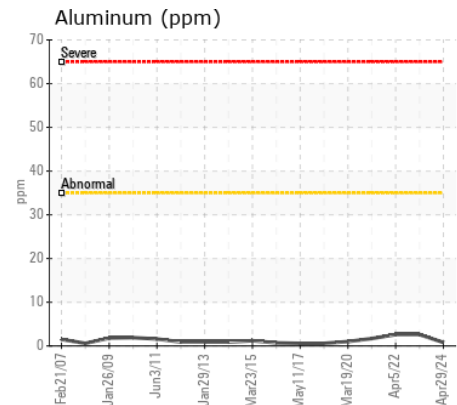
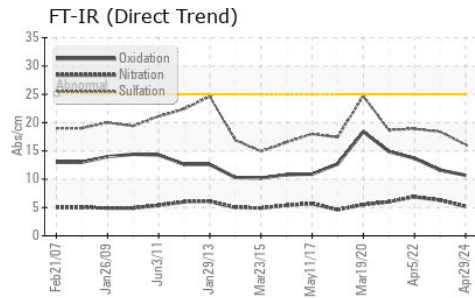
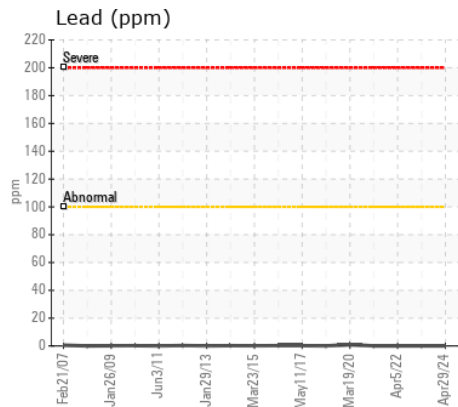
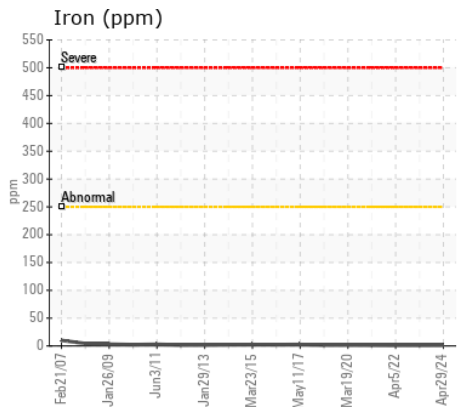
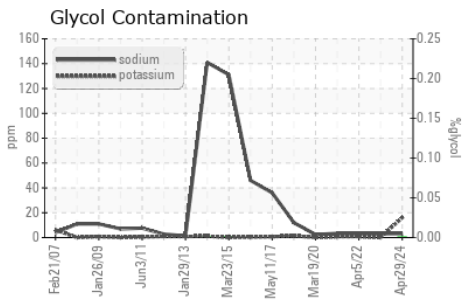
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	7	7
Potassium	ppm	ASTM D5185(m)	>20	16	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.2	6.3	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.1	18.4	18.9
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	3	3	3
Boron	ppm	ASTM D5185(m)		39	69	79
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		44	78	79
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		545	118	103
Calcium	ppm	ASTM D5185(m)	3780	1561	1999	2092
Phosphorus	ppm	ASTM D5185(m)	1370	1013	1063	1010
Zinc	ppm	ASTM D5185(m)	1500	1114	1108	1103
Sulfur	ppm	ASTM D5185(m)	3800	2956	3143	3100
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.7	11.6	13.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.6	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006086 **Received** : 06 May 2024
Lab Number : 02633446 **Tested** : 06 May 2024
Unique Number : 5774599 **Diagnosed** : 06 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.