



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
19 HORTICULTURAL AVE TORONTO CITY OF TORONTO 2071653

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (15 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		PN0005735	PN0004335	PN0001896
Sample Date		Client Info		27 Dec 2023	01 Dec 2022	19 Jan 2021
Machine Age	hrs	Client Info		65	328	294
Oil Age	hrs	Client Info		0	21	0
Filter Age	hrs	Client Info		0	21	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	1	2	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	<1
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	<1	3	8
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

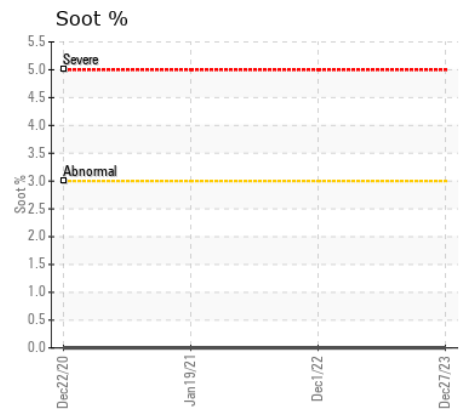
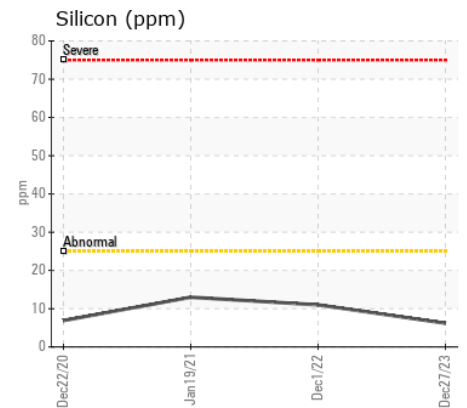
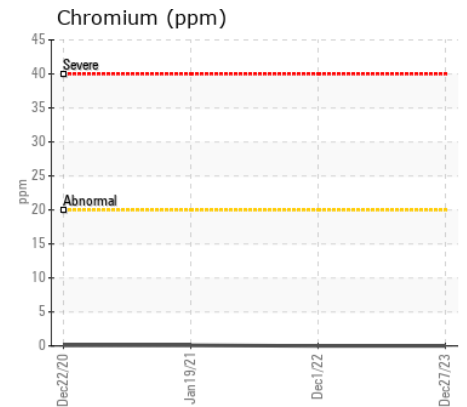
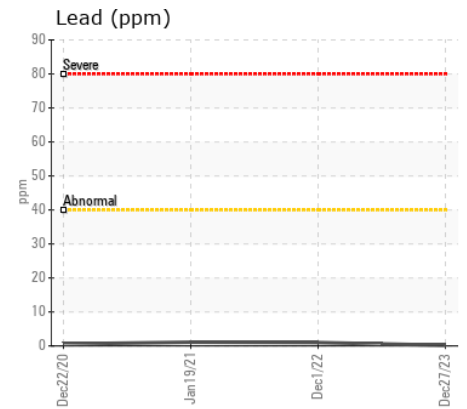
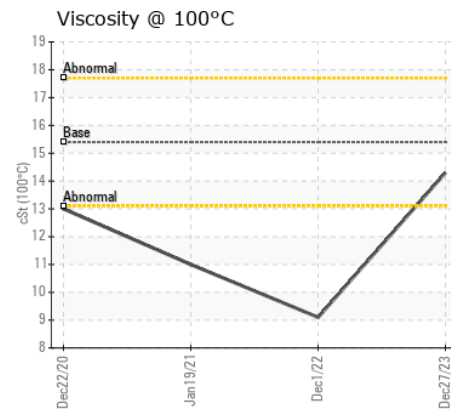
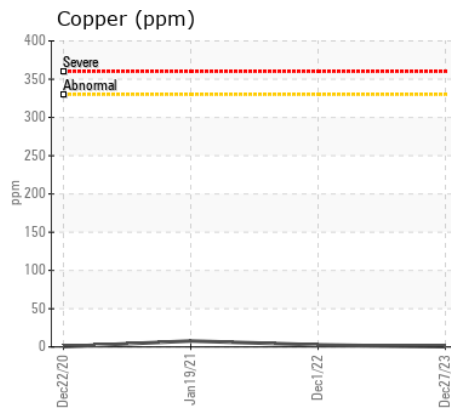
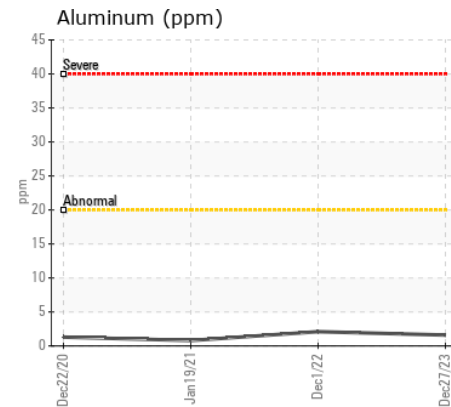
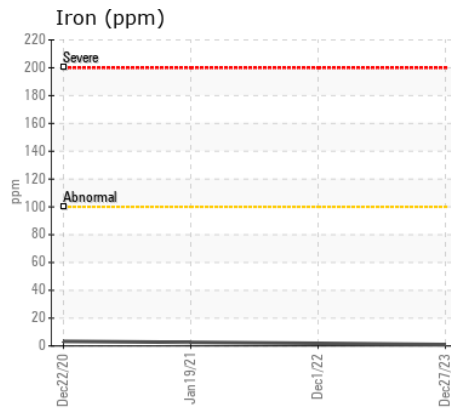
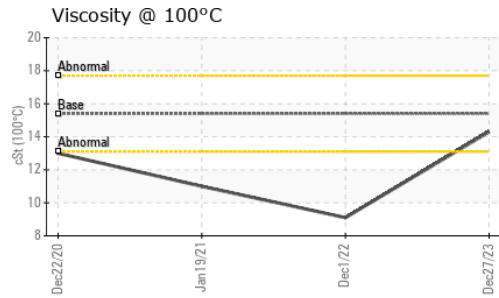
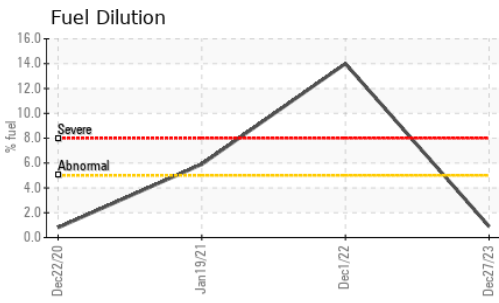
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	11	13
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	0.9	14	5.9
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	7.1	7.6	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.7	18.2	21.3
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	1	7	3
Boron	ppm	ASTM D5185(m)		73	64	65
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		15	66	37
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		51	51	466
Calcium	ppm	ASTM D5185(m)	3780	2015	1863	1463
Phosphorus	ppm	ASTM D5185(m)	1370	963	902	683
Zinc	ppm	ASTM D5185(m)	1500	1087	952	818
Sulfur	ppm	ASTM D5185(m)	3800	3501	2733	2071
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.5	14.4	19.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	9.1	11.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005735 **Received** : 08 Jan 2024
Lab Number : 02606976 **Diagnosed** : 09 Jan 2024
Unique Number : 5708062 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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.

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