



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
450 PRINCESS ST KINGSTON, UNIT 2 BELL CANADA 535108512

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (100 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005994	PN0004404	PN0003152
Sample Date		Client Info		03 Apr 2024	07 Dec 2022	06 Dec 2021
Machine Age	hrs	Client Info		387	347	30845
Oil Age	hrs	Client Info		0	37	24
Filter Age	hrs	Client Info		0	37	24
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	14	13	11
Chromium	ppm	ASTM D5185(m)	>20	1	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	1	2	2
Copper	ppm	ASTM D5185(m)	>330	5	5	5
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

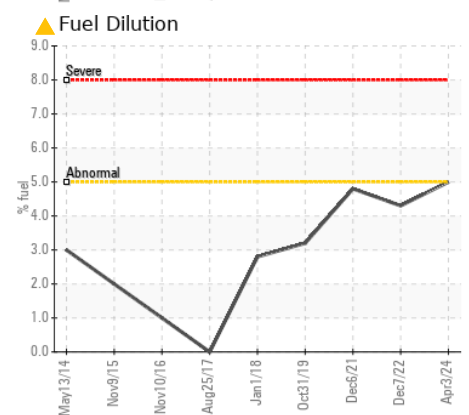
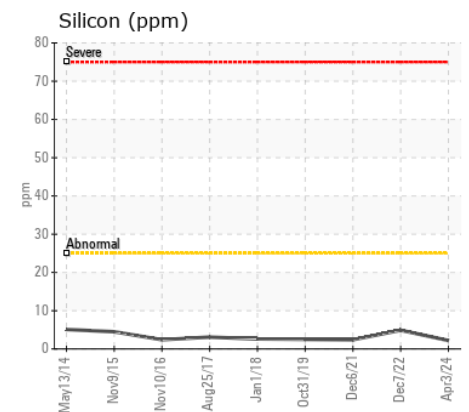
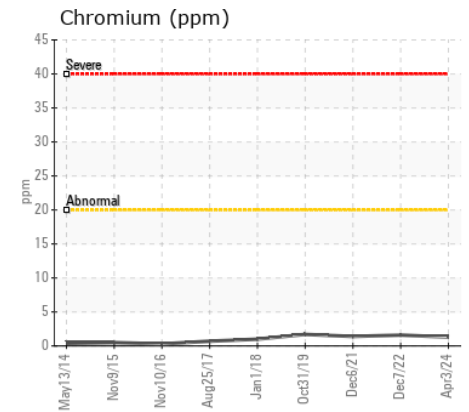
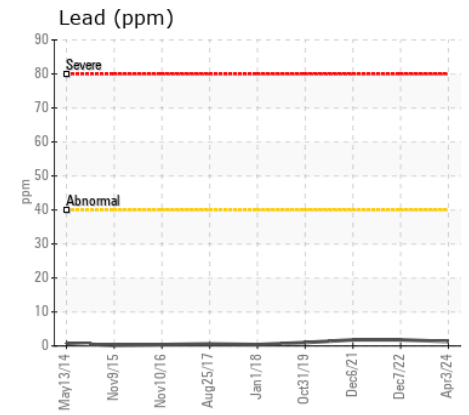
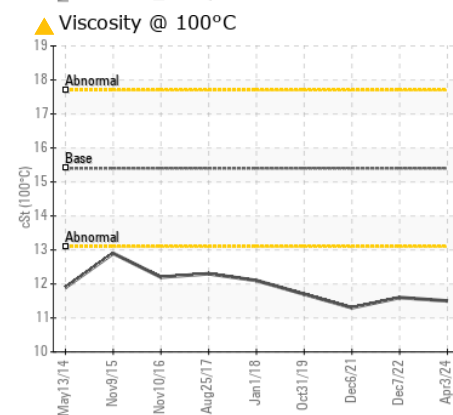
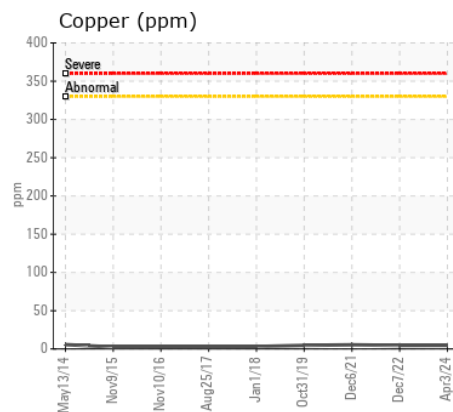
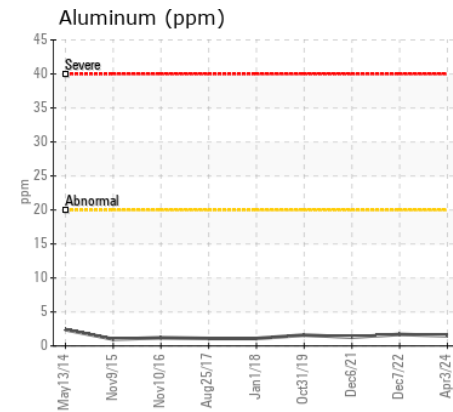
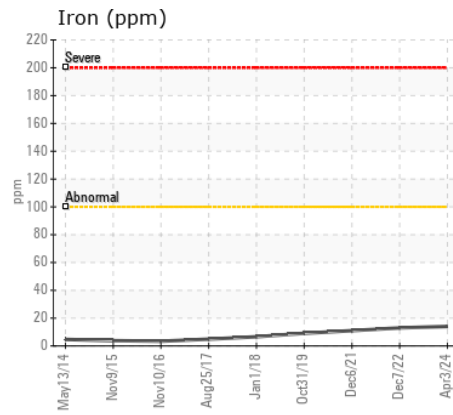
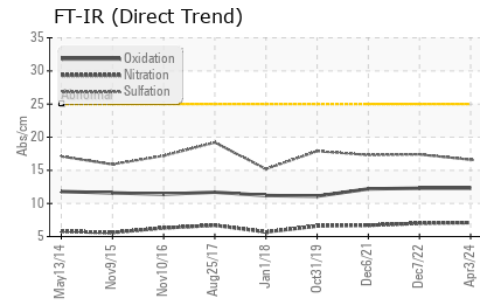
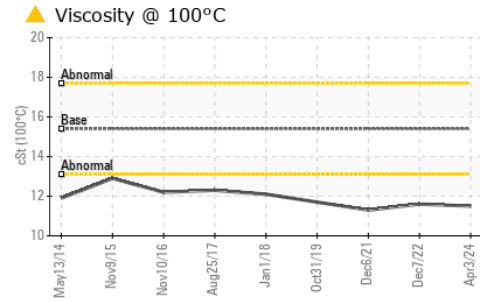
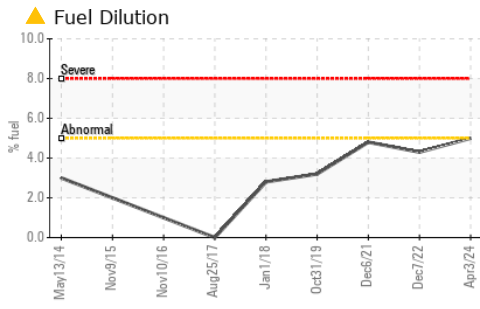
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	5	2
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel	%	ASTM D7593*	>5	▲ 5	▲ 4.3	▲ 4.8
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	7.0	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.6	17.4	17.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	3	3	3
Boron	ppm	ASTM D5185(m)		23	25	10
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		49	51	48
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		561	578	811
Calcium	ppm	ASTM D5185(m)	3780	1528	1570	1290
Phosphorus	ppm	ASTM D5185(m)	1370	979	1042	1055
Zinc	ppm	ASTM D5185(m)	1500	1132	1155	1194
Sulfur	ppm	ASTM D5185(m)	3800	2860	2886	2846
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.3	12.3	12.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.5	▲ 11.6	▲ 11.3



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005994 **Received** : 09 Apr 2024
Lab Number : 02627635 **Tested** : 10 Apr 2024
Unique Number : 5760767 **Diagnosed** : 10 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, 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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