



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
30 ELLERSILE AVE TORONTO CITY OF TORONTO 32 DIVISION RG6125H034799

Component
Right Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (50 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006168	PN0004678	PN0003539
Sample Date		Client Info		30 Apr 2024	17 Apr 2023	27 Apr 2022
Machine Age	hrs	Client Info		518	502	488
Oil Age	hrs	Client Info		0	14	0
Filter Age	hrs	Client Info		0	14	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)	>51	1	1	2
Chromium	ppm	ASTM D5185(m)	>11	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)	>31	<1	2	2
Lead	ppm	ASTM D5185(m)	>26	0	<1	1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

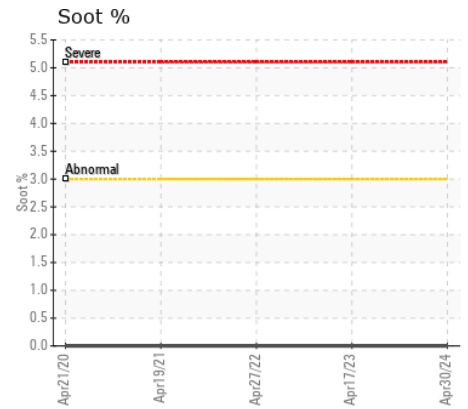
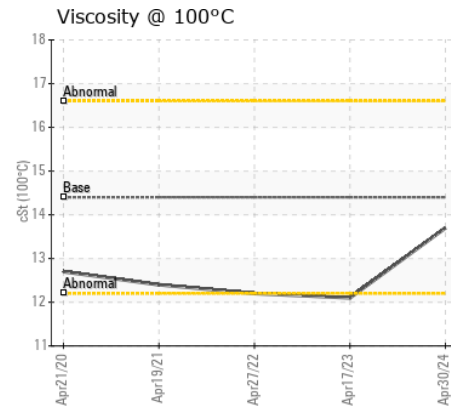
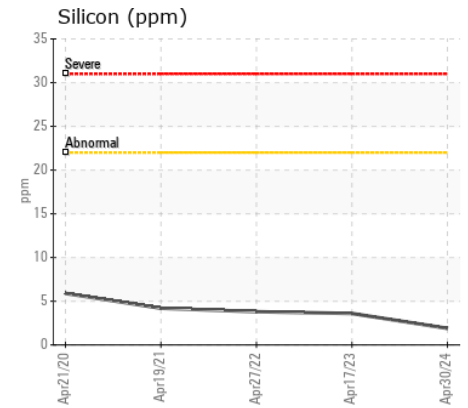
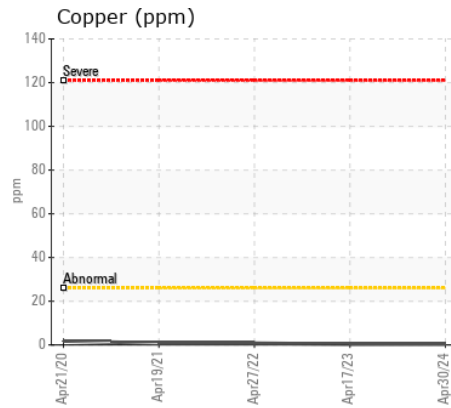
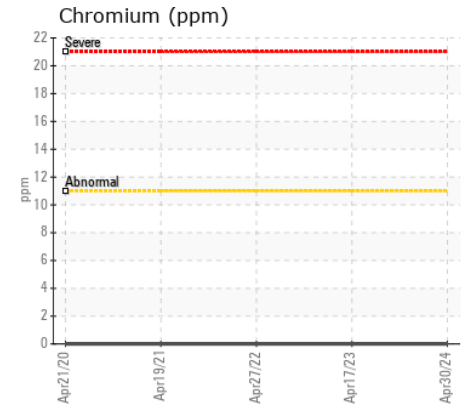
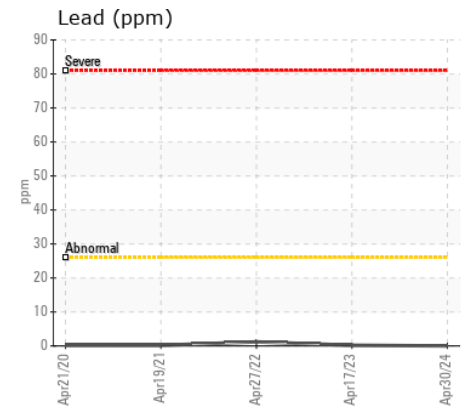
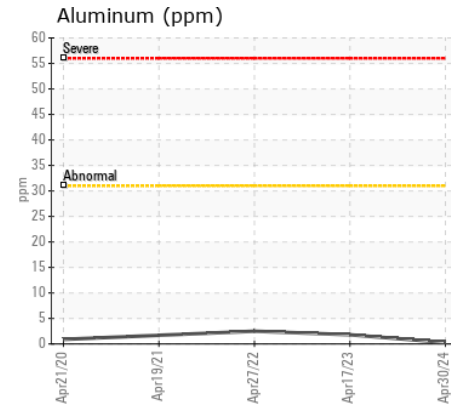
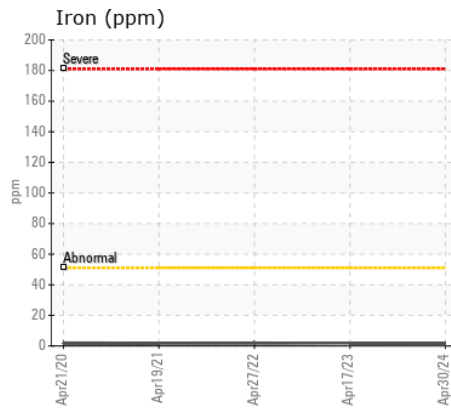
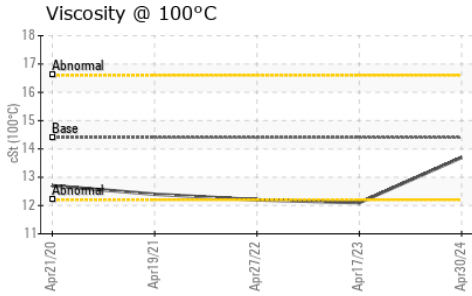
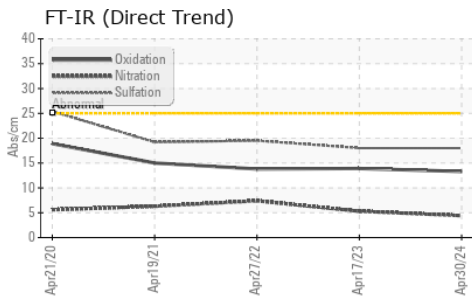
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.4	5.3	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	18.0	19.5
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<1	2	2
Boron	ppm	ASTM D5185(m)	250	4	36	70
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	59	63	81
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)	450	933	525	22
Calcium	ppm	ASTM D5185(m)	3000	1039	1609	2023
Phosphorus	ppm	ASTM D5185(m)	1150	1011	1030	1017
Zinc	ppm	ASTM D5185(m)	1350	1147	1092	1078
Sulfur	ppm	ASTM D5185(m)	4250	2574	2844	3094
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	13.9	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.7	12.1	12.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006168
Lab Number : 02633441
Unique Number : 5774594
Test Package : MOB 1
Received : 06 May 2024
Tested : 06 May 2024
Diagnosed : 06 May 2024 - Wes Davis

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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.