



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[85535]
 Machine Id
184 SIMPSON AVE TORONTO BELL CANADA 12VF010969

Component
Right Diesel Engine
 Fluid
SAE 40W (40 LTR)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005897	PN0001649	PN0000566
Sample Date		Client Info		06 Apr 2024	14 Sep 2020	16 Sep 2019
Machine Age	hrs	Client Info		481	481	480
Oil Age	hrs	Client Info		0	1	0
Filter Age	hrs	Client Info		0	1	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	2	2	6
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>30	1	1	4
Copper	ppm	ASTM D5185(m)	>30	4	3	8
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

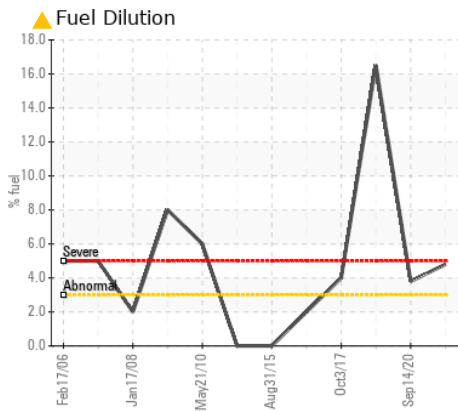
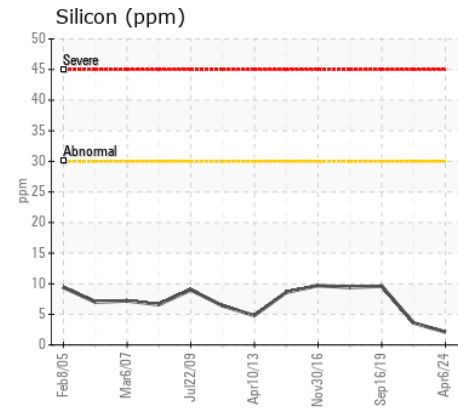
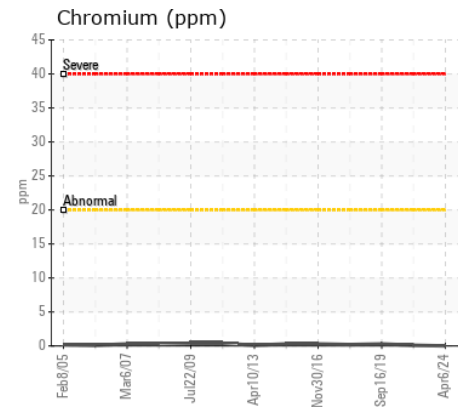
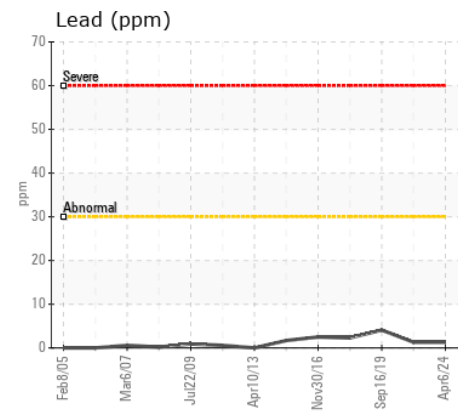
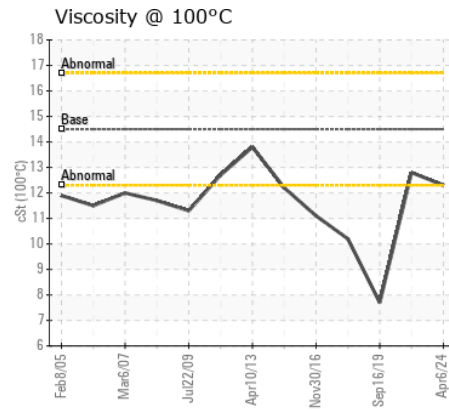
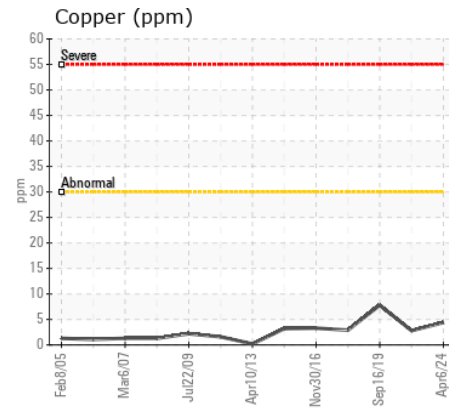
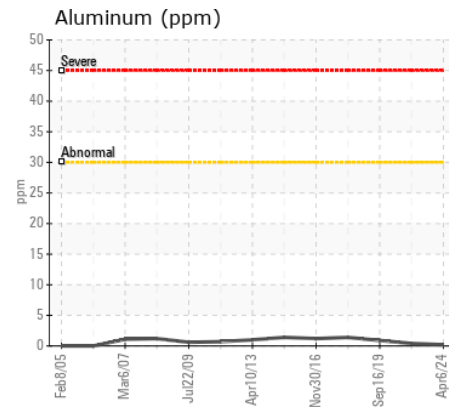
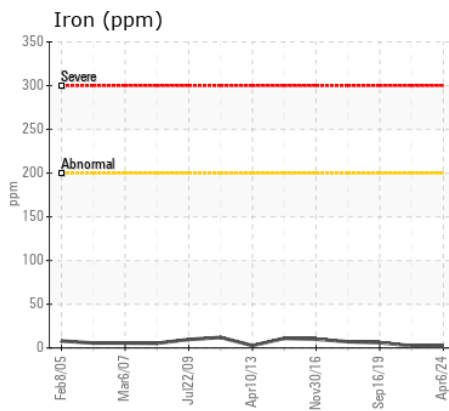
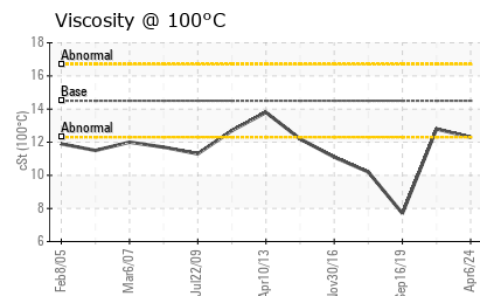
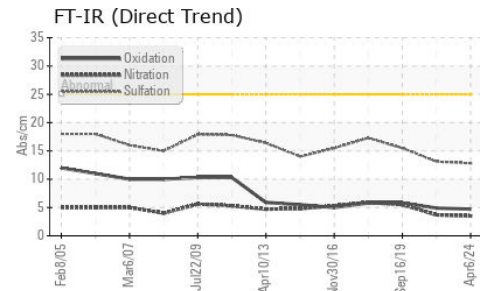
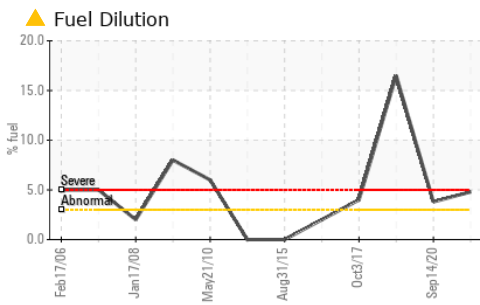
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	4	10
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel	%	ASTM D7593*	>3.0	▲ 4.8	▲ 3.8	▲ 16.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	▲ 0.015	▲ 0.035
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.5	3.7	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.8	13.1	15.5
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)		64	● 53	● 413
Boron	ppm	ASTM D5185(m)		11	12	5
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		6	7	3
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		40	40	83
Calcium	ppm	ASTM D5185(m)		2945	▲ 2972	2909
Phosphorus	ppm	ASTM D5185(m)		681	▲ 694	875
Zinc	ppm	ASTM D5185(m)		762	▲ 778	972
Sulfur	ppm	ASTM D5185(m)		2216	▲ 2238	3071
Oxidation	Abs/.1mm	ASTM D7414*	>25	4.7	4.9	5.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	12.3	12.8	▲ 7.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005897 **Received** : 09 Apr 2024
Lab Number : 02627619 **Tested** : 10 Apr 2024
Unique Number : 5760751 **Diagnosed** : 10 Apr 2024 - 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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