



Machine Id
168 JOHNSON ST, BARRIE WPS CITY OF BARRIE 08VF143221

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA SAE 40 (25 LTR)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006280	PN111226	PN990846
Sample Date		Client Info		31 May 2024	11 May 2018	06 Apr 2017
Machine Age	hrs	Client Info		194	36	17
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				MARGINAL	SEVERE	ATTENTION

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>125	24	9	9
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	1	1	1
Lead	ppm	ASTM D5185(m)	>12	1	4	3
Copper	ppm	ASTM D5185(m)	>45	3	5	4
Tin	ppm	ASTM D5185(m)	>20	6	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

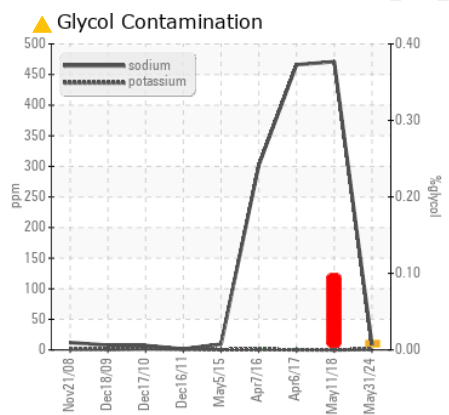
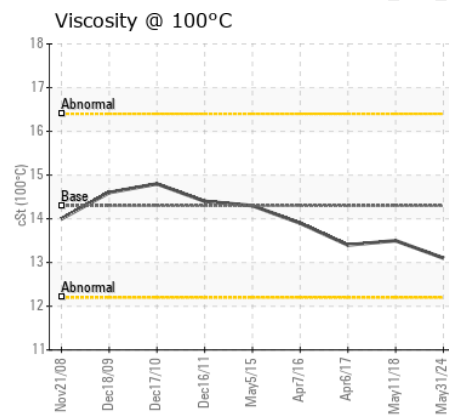
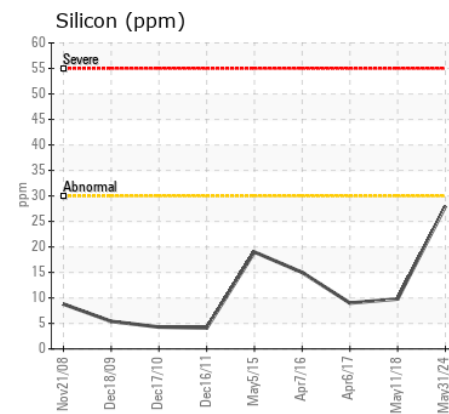
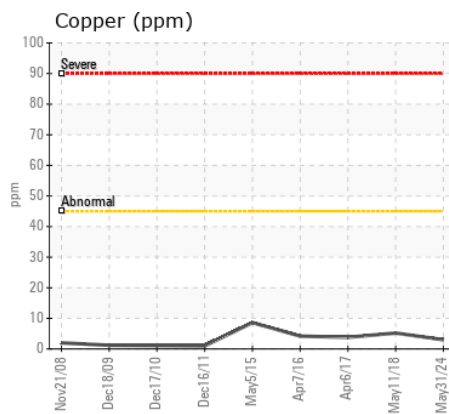
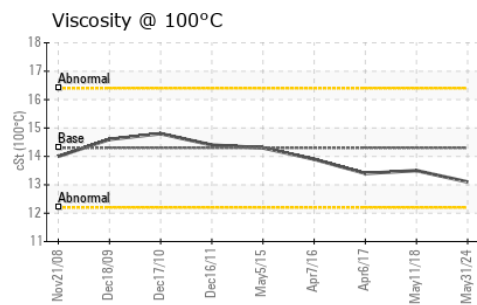
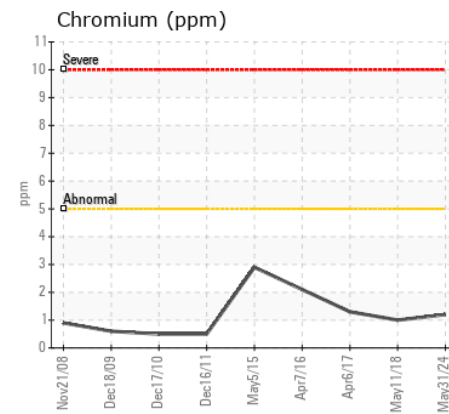
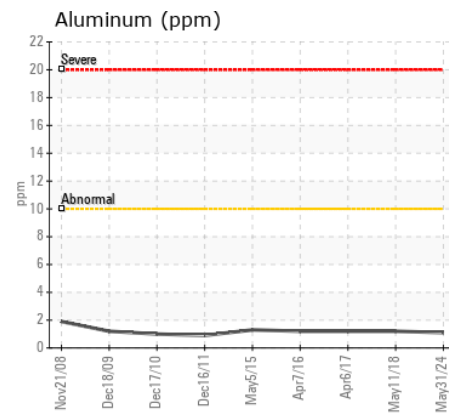
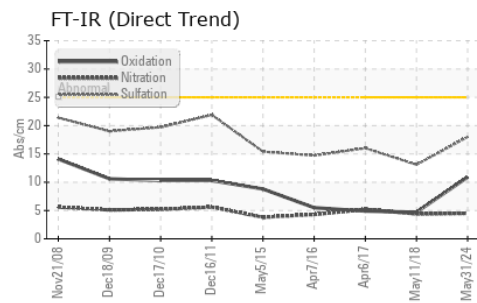
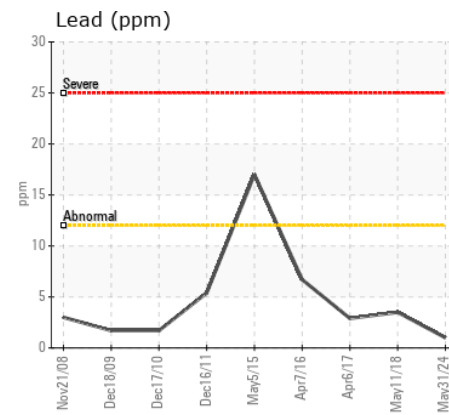
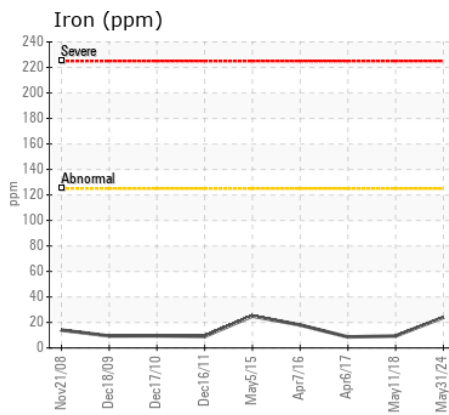
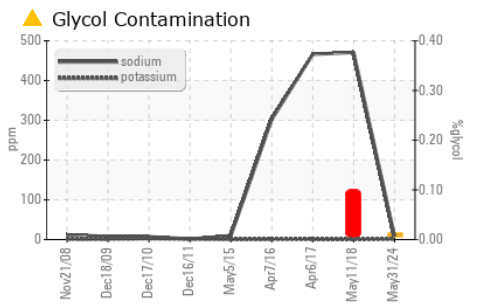
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>30	28	10	9
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.012	▲ 0.10	0.0
Soot %	%	ASTM D7844*	>0.8	0.4	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.5	4.4	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	13.1	16.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		8	● 471	● 466
Boron	ppm	ASTM D5185(m)		320	4	4
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		76	2	2
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		300	37	26
Calcium	ppm	ASTM D5185(m)	2550	1717	3425	3562
Phosphorus	ppm	ASTM D5185(m)	1000	971	968	1006
Zinc	ppm	ASTM D5185(m)	1120	1130	1098	1151
Sulfur	ppm	ASTM D5185(m)		2684	3319	3509
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.9	4.7	4.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.1	13.5	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006280
Lab Number : 02640199
Unique Number : 5789361
Test Package : MOB 1
Received : 06 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 Jun 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.