

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL

441 BLOOR ST. EAST FH313 CITY OF TORONTO 39001047

Right Natural Gas Engine

ESSO XD-3 EXTRA 5W30 (10 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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Metal levels are typical for a new component breaking in.

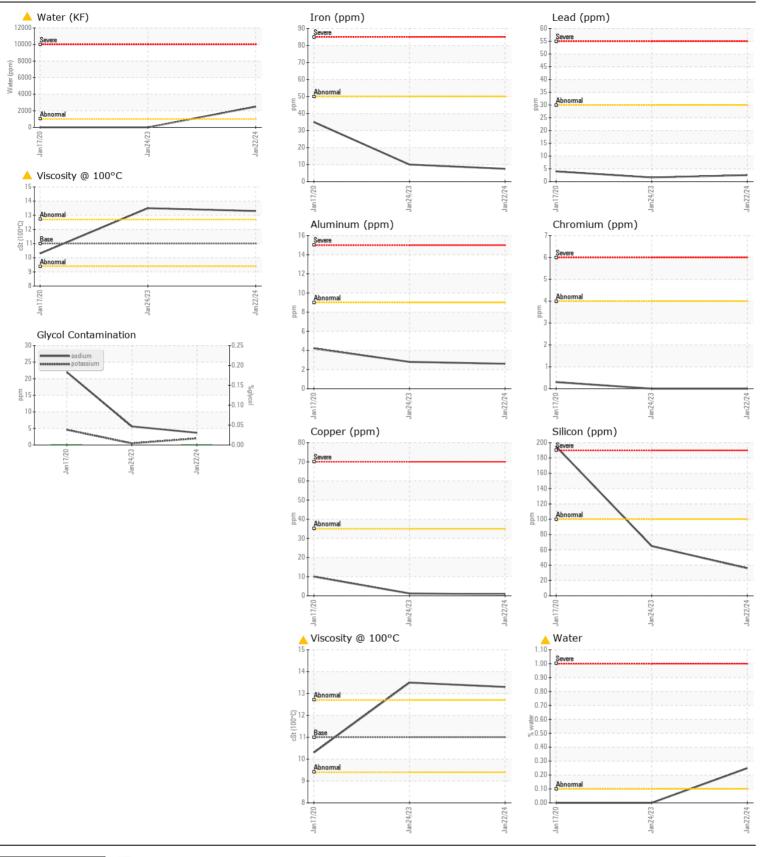
CONTAMINATION

There is a moderate concentration of water present in the oil. Test for glycol is negative.

FI UID	CONDITION	

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005621	PN0004554	PN0000766
Sample Date		Client Info		22 Jan 2024	24 Jan 2023	17 Jan 2020
Machine Age	hrs	Client Info		84	82	28
Oil Age	hrs	Client Info		16	0	0
Filter Age	hrs	Client Info		16	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>50	8	10	35
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	3	3	4
Lead	ppm	ASTM D5185(m)	>30	2	2	4
Copper	ppm	ASTM D5185(m)	>35	<1	1	10
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>+100	36	65	195
Potassium	ppm	ASTM D5185(m)	>20	2	<1	5
Water	%	ASTM D6304*	>0.1	0.249		
ppm Water	ppm	ASTM D6304*	>1000	A 2498		
Glycol	%	ASTM D7922*		0.0		0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.9	4.2	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.9	15.2	20.3
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	.2%	NEG	NEG
Sodium				4	G	00
Sodium Boron	ppm	ASTM D5185(m) ASTM D5185(m)		4 50	35	22 59
Barium	ppm	ASTM D5185(m) ASTM D5185(m)		50 0	0	<1
Molybdenum	ppm	ASTM D5185(m)		39	50	99
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		39 0	2	8
Magnesium	ppm ppm	ASTM D5185(m)		0 311	67	153
Calcium		ASTM D5185(m) ASTM D5185(m)	2360	1809	2903	1601
Phosphorus	ppm	ASTM D5185(m)	1110	1011	881	571
	ppm	. ,			934	688
Zinc Sulfur	ppm	ASTM D5185(m)	1220	1133 3320		
Oxidation	ppm	ASTM D5185(m) ASTM D7414*	> 2E	3320	3037	1612
	Abs/.1mm		>25	12.2	6.8	10.1
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	13.3	13.5	10.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Recieved : 24 Jan 2024 : PN0005621 Ú. Lab Number : 02610871 Diagnosed : 25 Jan 2024 ISO 17025:2017 Accredited Laboratory : 5719966 Unique Number Diagnostician : Kevin Marson Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual) 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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