



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
5800 RIVER GROOVE AV MISSISSAUGA CITY OF MISSISSAUGA 25432818

Component
Left Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005756	PN0004456	PN0003197
Sample Date		Client Info		20 Dec 2023	13 Dec 2022	07 Jan 2022
Machine Age	hrs	Client Info		85	74	64
Oil Age	hrs	Client Info		14	7	0
Filter Age	hrs	Client Info		14	7	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	1	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	2
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	2	1	2
Copper	ppm	ASTM D5185(m)	>330	7	4	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

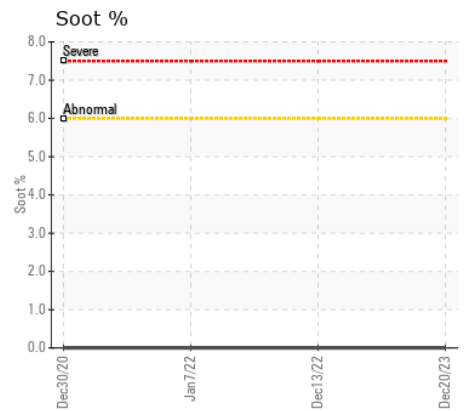
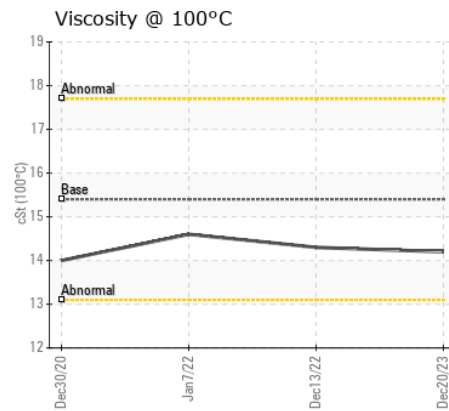
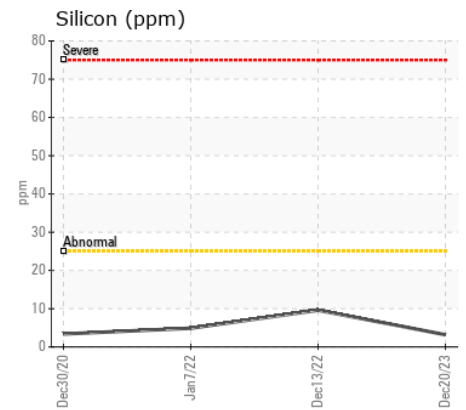
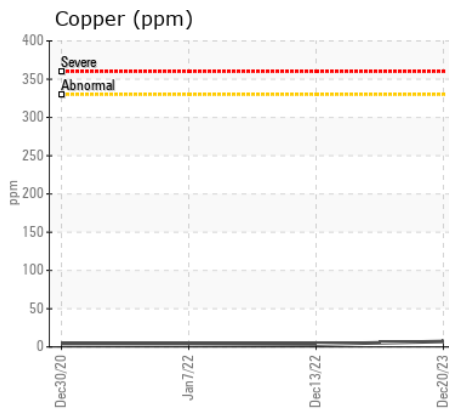
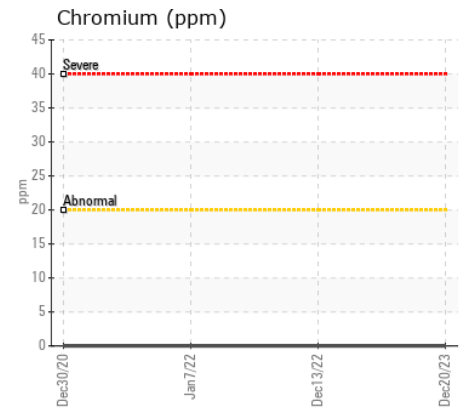
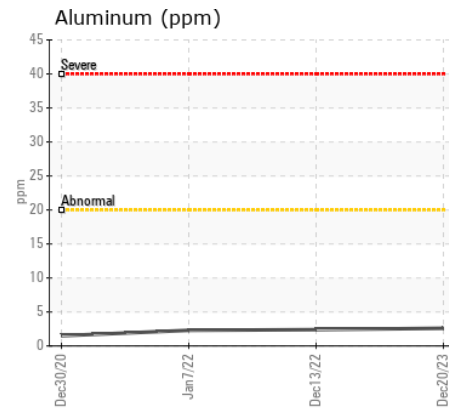
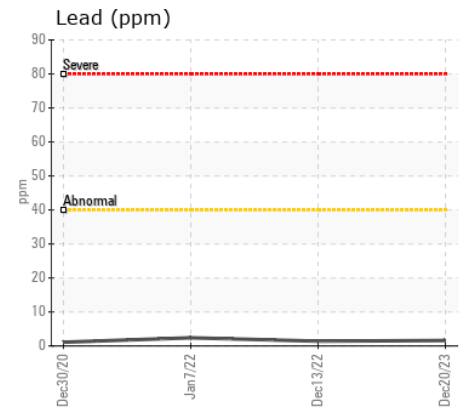
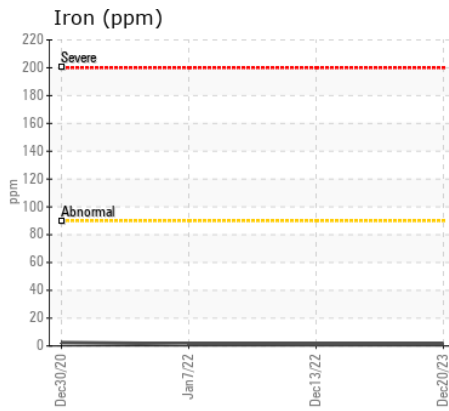
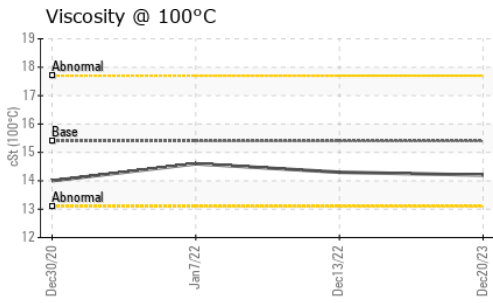
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	10	5
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		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.6	7.2	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.1	17.3	14.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	3	3
Boron	ppm	ASTM D5185(m)		65	76	74
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		71	81	84
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		68	27	74
Calcium	ppm	ASTM D5185(m)	3780	2037	2167	2104
Phosphorus	ppm	ASTM D5185(m)	1370	990	1069	1035
Zinc	ppm	ASTM D5185(m)	1500	1110	1123	1152
Sulfur	ppm	ASTM D5185(m)	3800	3288	3162	3216
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	12.8	7.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	14.3	14.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005756 **Received** : 08 Jan 2024
Lab Number : 02606973 **Diagnosed** : 08 Jan 2024
Unique Number : 5708059 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.