



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
40 OLD BURNHAMTHORPE NEXACOR CSBG01135
 Component
Front Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (320 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005763	PN0003880	PN0001521
Sample Date		Client Info		14 Feb 2024	25 Jul 2022	13 Aug 2020
Machine Age	hrs	Client Info		332	294	231
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		39	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

Iron	ppm	ASTM D5185(m)	>100	5	5	22
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	3	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	2	2	11
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

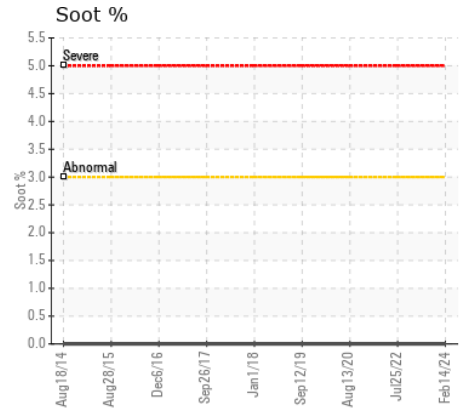
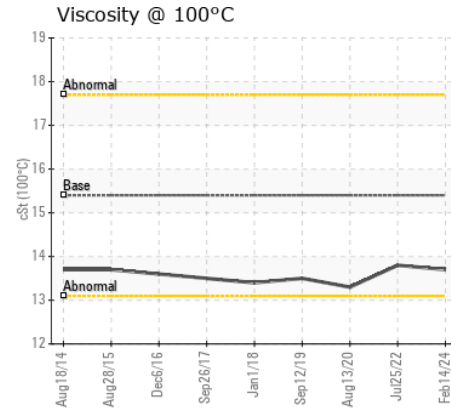
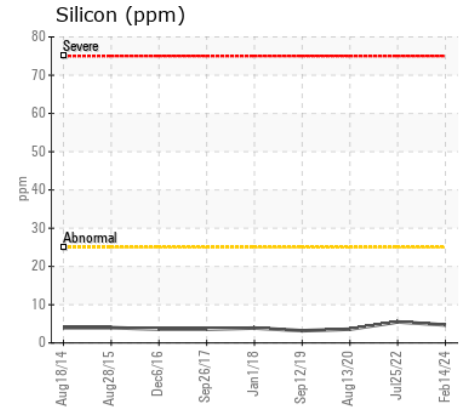
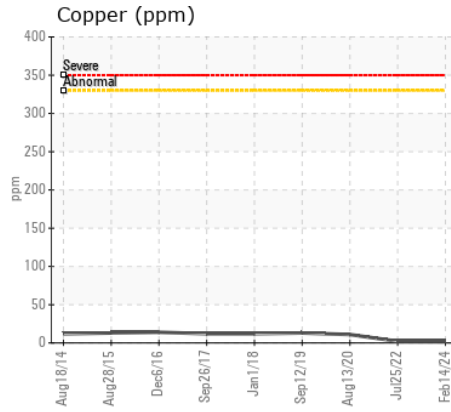
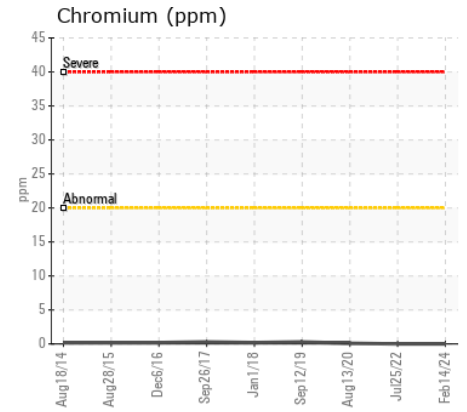
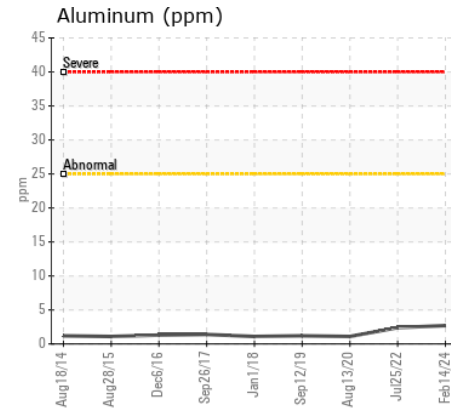
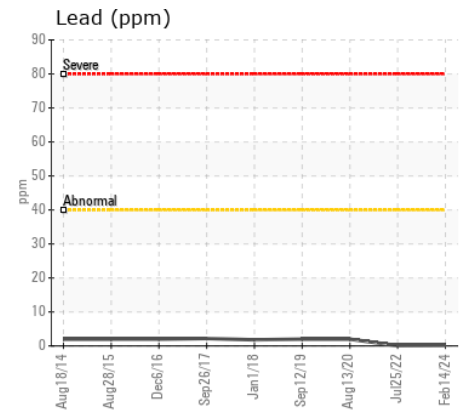
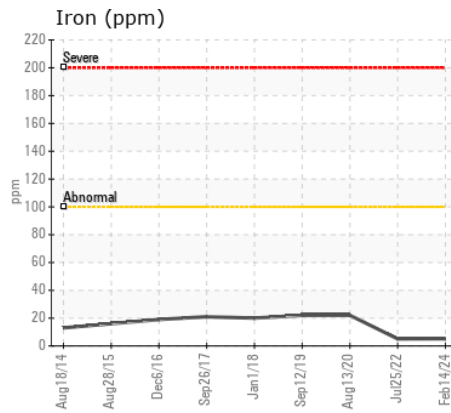
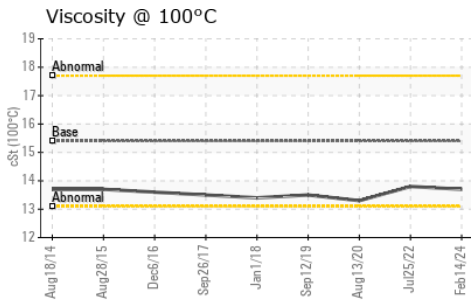
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	4
Potassium	ppm	ASTM D5185(m)	>20	1	7	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	7.4	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.1	18.0	18.5
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	3	4
Boron	ppm	ASTM D5185(m)		60	67	41
Barium	ppm	ASTM D5185(m)		<1	<1	5
Molybdenum	ppm	ASTM D5185(m)		77	82	43
Manganese	ppm	ASTM D5185(m)		0	<1	1
Magnesium	ppm	ASTM D5185(m)		150	108	722
Calcium	ppm	ASTM D5185(m)	3780	1967	2072	1300
Phosphorus	ppm	ASTM D5185(m)	1370	1000	981	858
Zinc	ppm	ASTM D5185(m)	1500	1093	1118	1016
Sulfur	ppm	ASTM D5185(m)	3800	3205	3211	2694
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	13.8	16.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.7	13.8	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005763 **Received** : 21 Feb 2024
Lab Number : 02616836 **Tested** : 22 Feb 2024
Unique Number : 5733946 **Diagnosed** : 22 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.