



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[86136]
 Machine Id
381 NORTH SERVICE RD OUTSIDE AINSWORTH INC 31452

Component
Left Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (180 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006153	PN0004829	PN0003534
Sample Date		Client Info		03 May 2024	05 May 2023	08 Apr 2022
Machine Age	hrs	Client Info		144	141	134
Oil Age	hrs	Client Info		3	7	0
Filter Age	hrs	Client Info		3	7	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	3	2
Lead	ppm	ASTM D5185(m)	>40	0	1	2
Copper	ppm	ASTM D5185(m)	>330	4	11	26
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

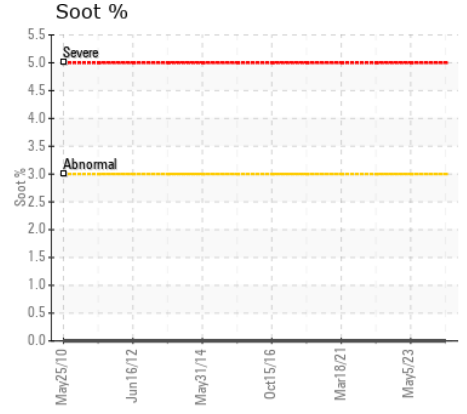
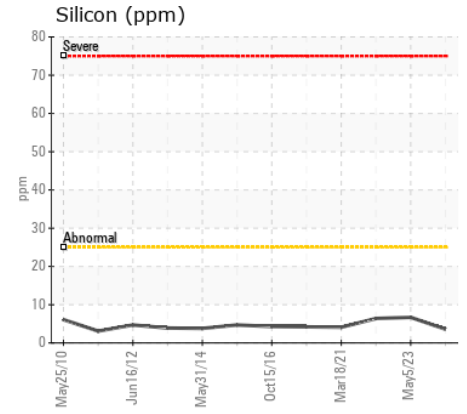
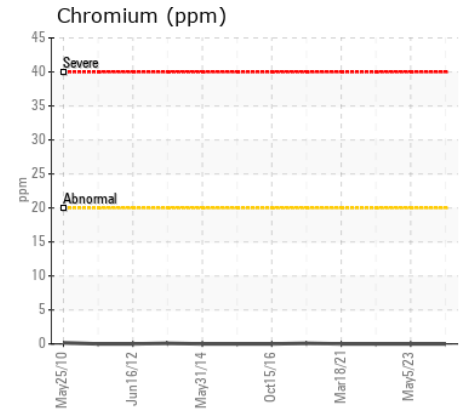
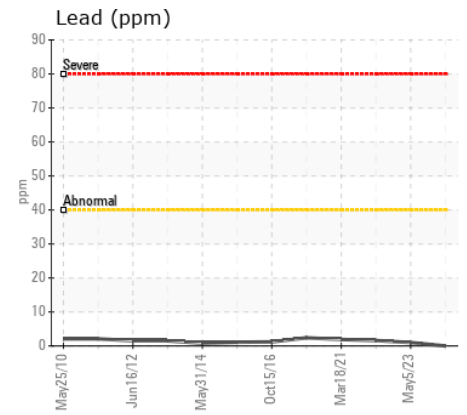
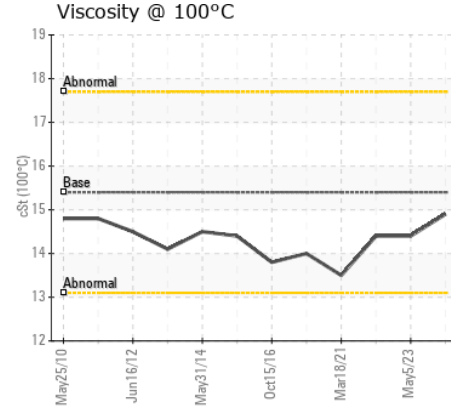
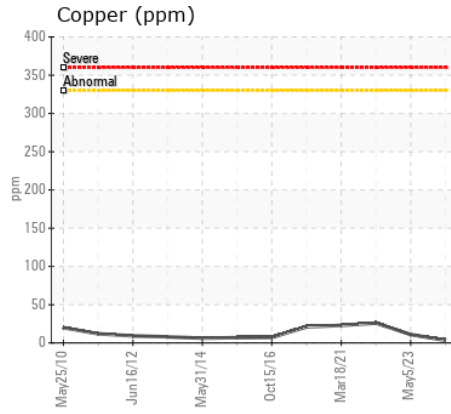
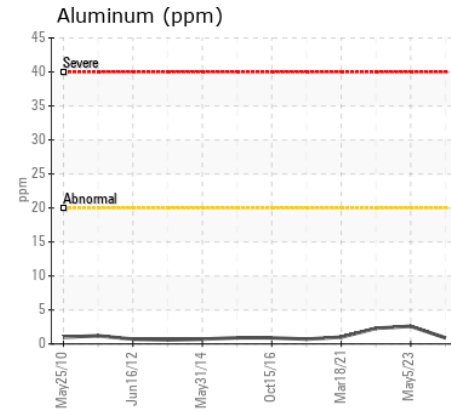
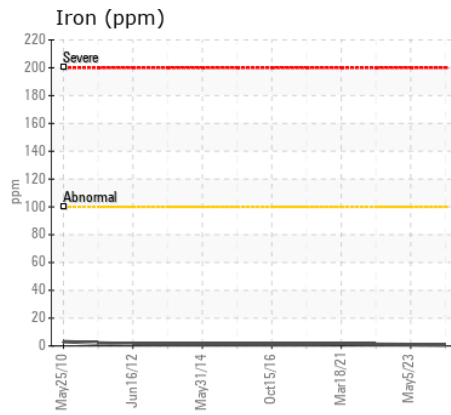
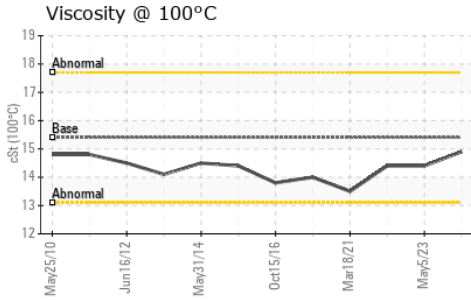
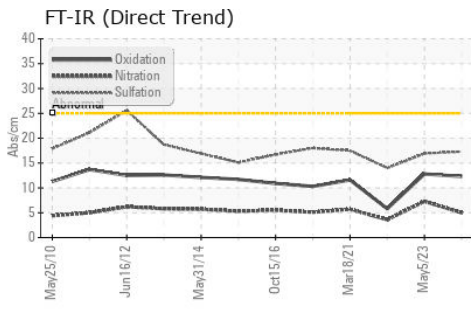
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	5.0	7.3	3.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	16.9	14.0
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	1	2	2
Boron	ppm	ASTM D5185(m)		19	72	74
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		64	78	66
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		775	72	229
Calcium	ppm	ASTM D5185(m)	3780	1256	2155	1881
Phosphorus	ppm	ASTM D5185(m)	1370	1018	1052	983
Zinc	ppm	ASTM D5185(m)	1500	1168	1106	1062
Sulfur	ppm	ASTM D5185(m)	3800	2737	3152	2982
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.3	12.8	5.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.9	14.4	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006153
Lab Number : 02634887
Unique Number : 5776040
Test Package : MOB 1

Received : 13 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 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.