



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
146
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888979	WC0888993	WC0889171
Sample Date		Client Info		15 May 2024	05 Apr 2024	06 Feb 2024
Machine Age	kms	Client Info		1110969	0	0
Oil Age	kms	Client Info		9326	9221	8868
Filter Age	kms	Client Info		9326	9221	8868
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	10	9	9
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	1	2
Lead	ppm	ASTM D5185(m)	>25	<1	0	1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

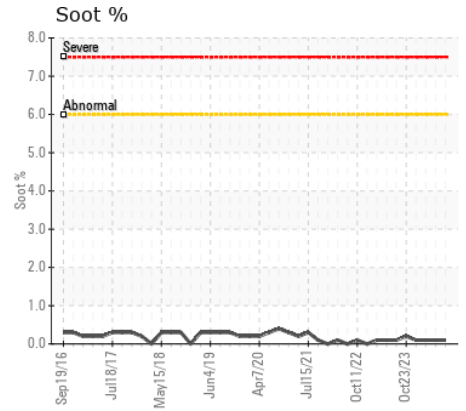
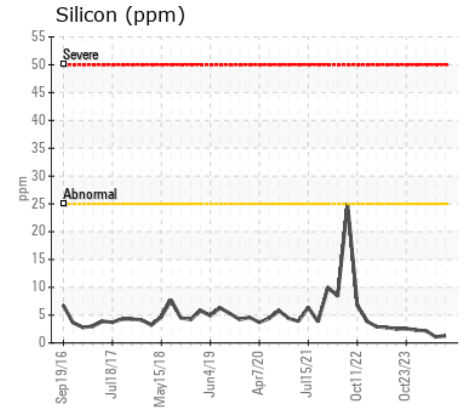
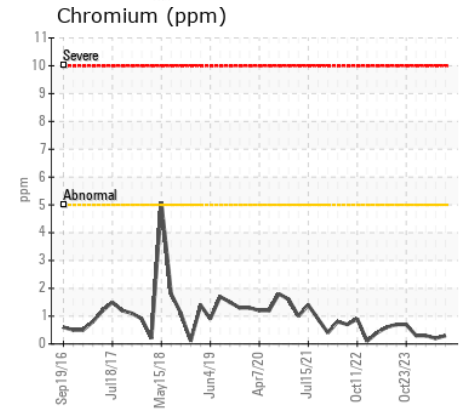
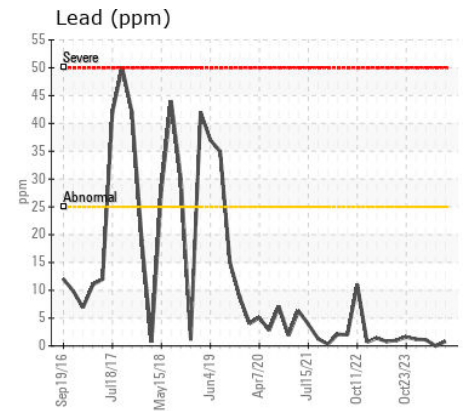
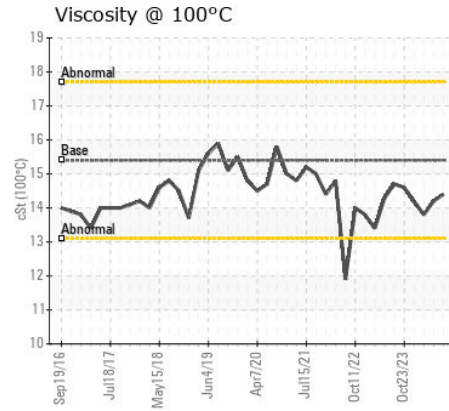
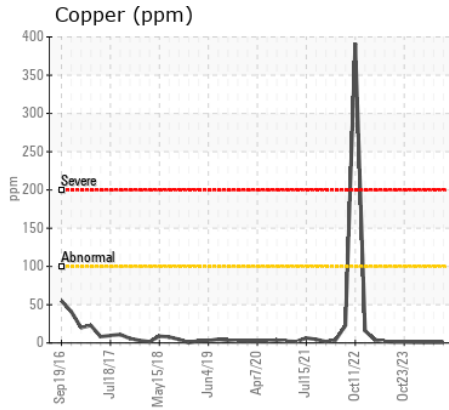
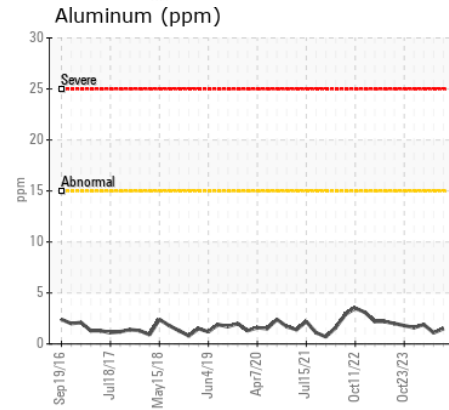
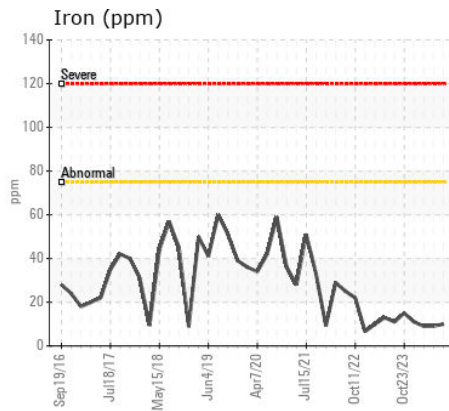
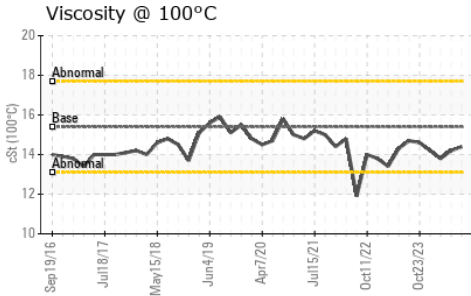
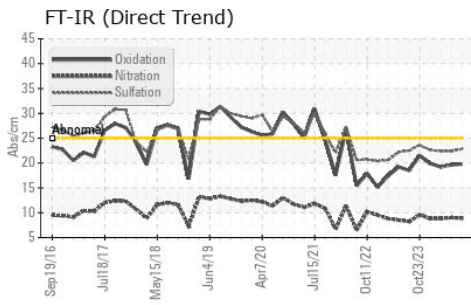
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	1	2
Potassium	ppm	ASTM D5185(m)	>20	6	5	6
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	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.9	9.0	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	22.4	22.4
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	2	2
Boron	ppm	ASTM D5185(m)		109	120	112
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		13	14	20
Calcium	ppm	ASTM D5185(m)	3780	2242	2224	2191
Phosphorus	ppm	ASTM D5185(m)	1370	946	928	928
Zinc	ppm	ASTM D5185(m)	1500	1172	1153	1131
Sulfur	ppm	ASTM D5185(m)	3800	2849	2799	3005
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	19.6	19.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.4	14.2	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0888979
Lab Number : 02636552
Unique Number : 5785714
Test Package : MOB 1
Received : 21 May 2024
Tested : 21 May 2024
Diagnosed : 21 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.