



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86643]

Machine Id

10 GORE RD, CONCESSION WASTE REGION OF PEEL 44169559

Component

Rear Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (15 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006260	PN0002535	PN0000089
Sample Date		Client Info		04 Jun 2024	01 Jun 2021	04 Jun 2019
Machine Age	hrs	Client Info		974	927	898
Oil Age	hrs	Client Info		0	0	16
Filter Age	hrs	Client Info		0	0	16
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

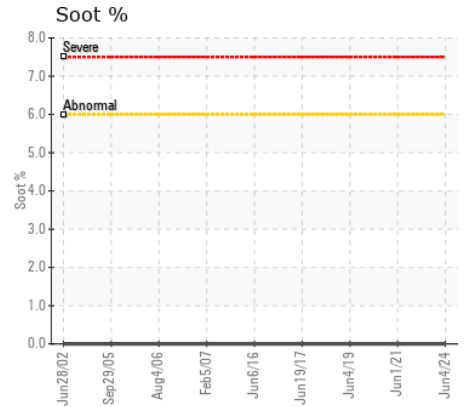
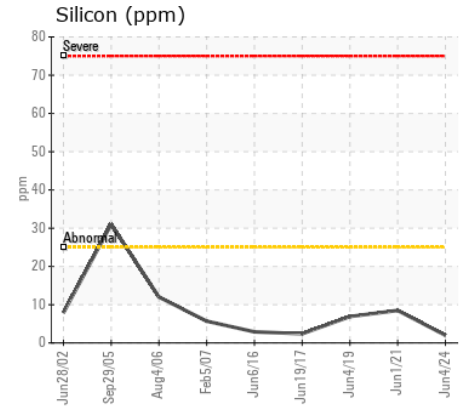
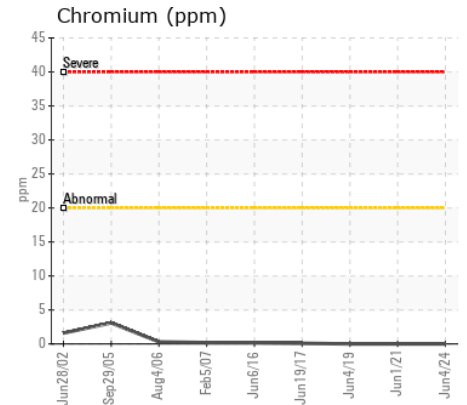
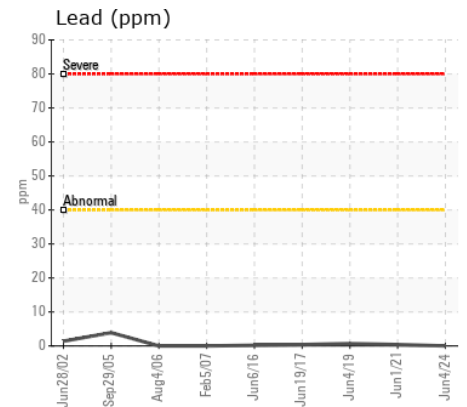
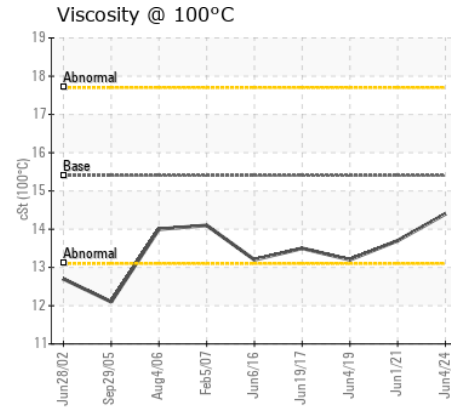
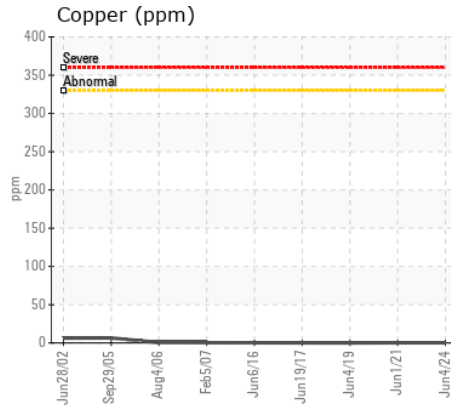
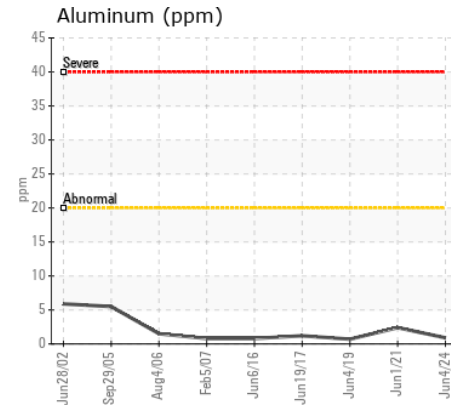
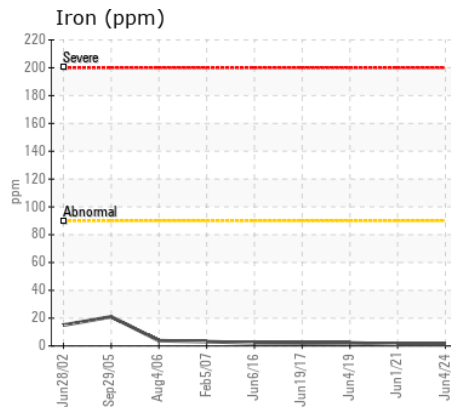
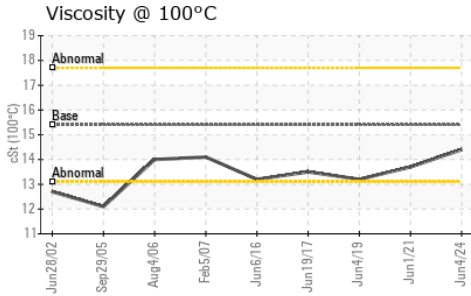
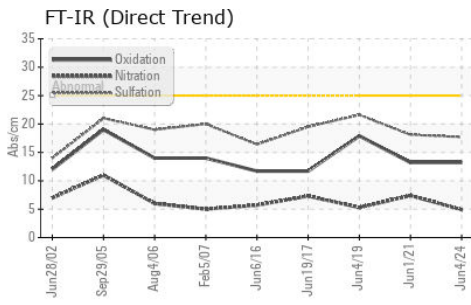
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	8	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
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	4.9	7.4	5.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	18.1	21.6
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	3	5
Boron	ppm	ASTM D5185(m)		6	74	44
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		54	82	42
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		877	56	567
Calcium	ppm	ASTM D5185(m)	3780	1085	2133	1421
Phosphorus	ppm	ASTM D5185(m)	1370	968	1003	790
Zinc	ppm	ASTM D5185(m)	1500	1142	1168	912
Sulfur	ppm	ASTM D5185(m)	3800	2571	3332	2257
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	13.2	17.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.4	13.7	13.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006260
Lab Number : 02641023
Unique Number : 5798562
Test Package : MOB 1
Received : 11 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 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.