



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
10 PEEL CENTRE DRIVE BRAMPTON REGION OF PEEL - FACILITIES ZAP00381

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (380 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		PN0005823	PN0004583	PN0003267
Sample Date		Client Info		25 Feb 2024	12 Feb 2023	13 Feb 2022
Machine Age	hrs	Client Info		296	284	266
Oil Age	hrs	Client Info		15	16	23
Filter Age	hrs	Client Info		15	16	23
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
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	<1	1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

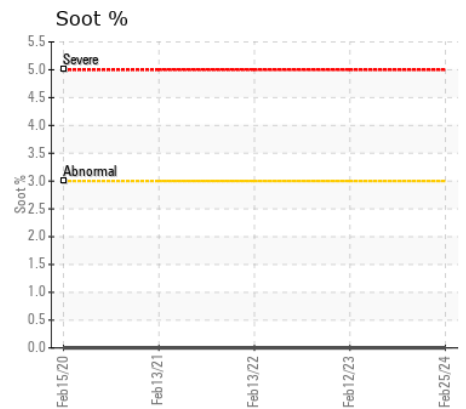
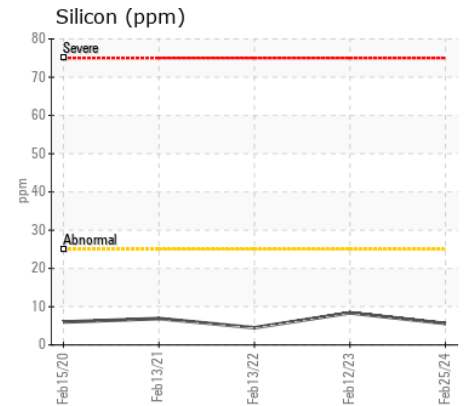
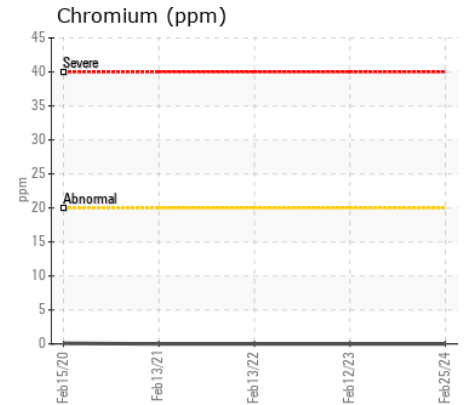
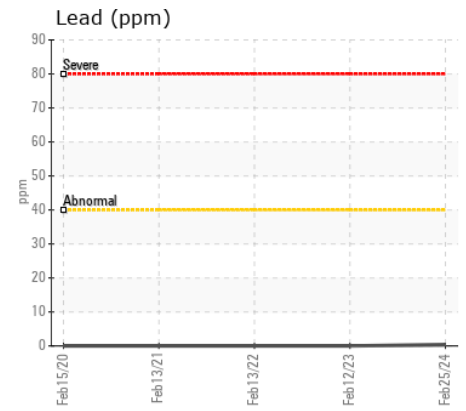
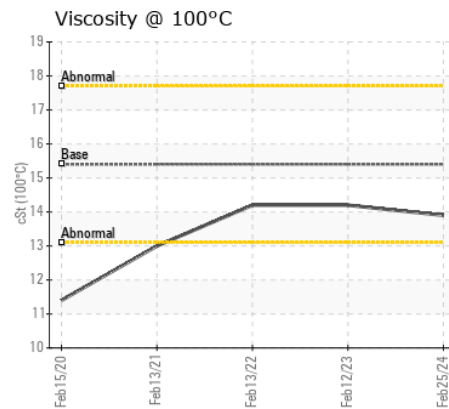
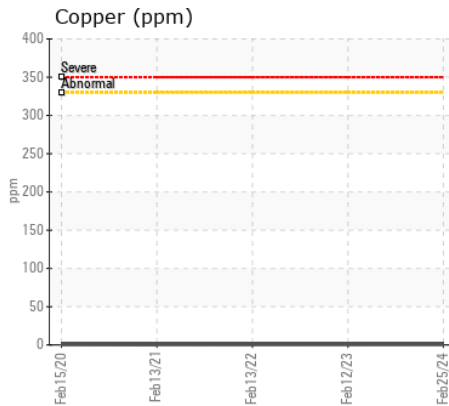
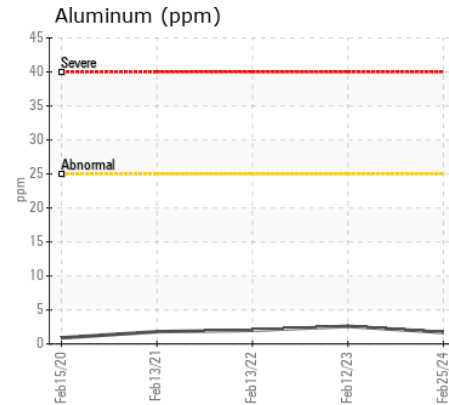
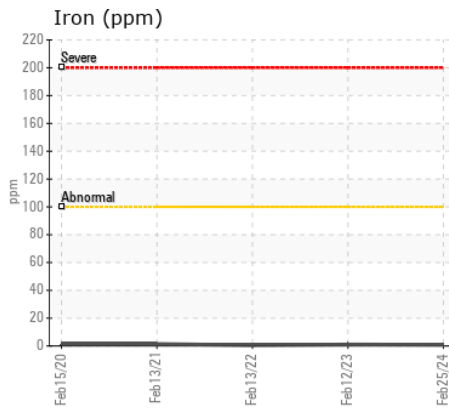
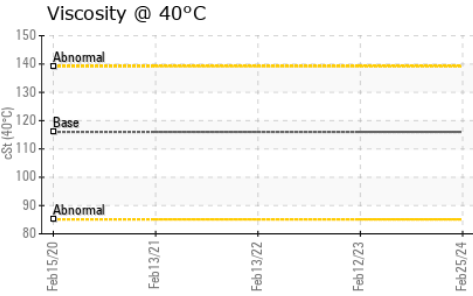
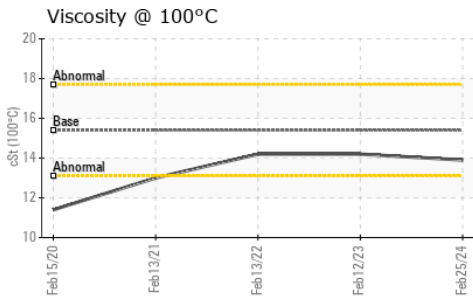
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	8	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>6	<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	5.9	6.3	4.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	18.0	14.1
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	1	2	2
Boron	ppm	ASTM D5185(m)		47	76	51
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		41	85	54
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		437	29	51
Calcium	ppm	ASTM D5185(m)	3780	1649	2255	1439
Phosphorus	ppm	ASTM D5185(m)	1370	1002	1118	691
Zinc	ppm	ASTM D5185(m)	1500	1105	1146	769
Sulfur	ppm	ASTM D5185(m)	3800	3180	3305	2179
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.4	11.0	7.1
Visc @ 40°C	cSt	ASTM D7279(m)	116	98.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	14.2	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	140	143	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005823
Lab Number : 02618928
Unique Number : 5736038
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

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.

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