



Machine Id
26 STONEYLAKE AVE, BRAMPTON LAKELANDS REGION OF PEEL B3.3-G2
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA SAE 30 (10 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006196	PN0003631	PN0002677
Sample Date		Client Info		21 Jun 2024	21 Jun 2022	10 Aug 2021
Machine Age	hrs	Client Info		433	405	393
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	2	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
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	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

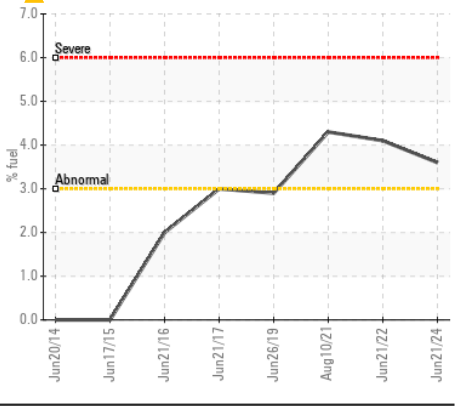
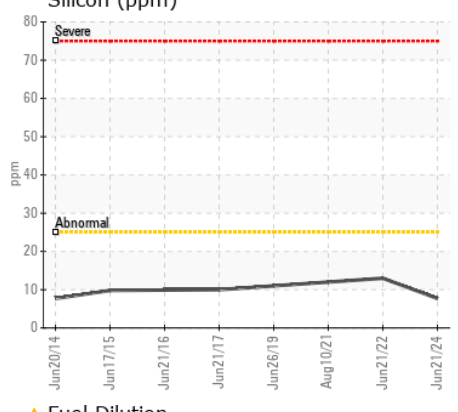
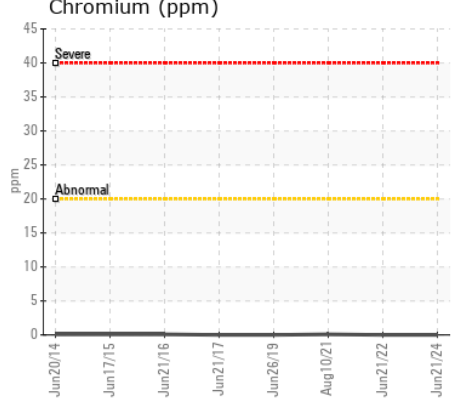
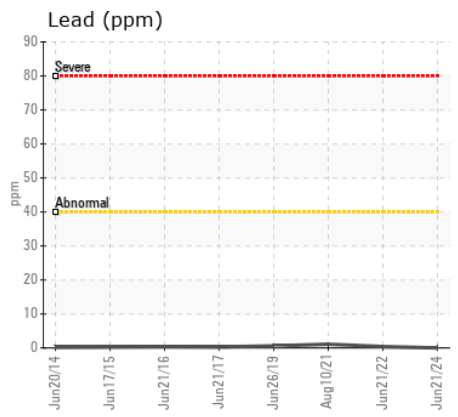
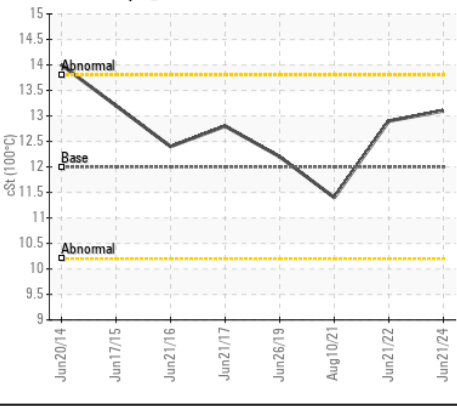
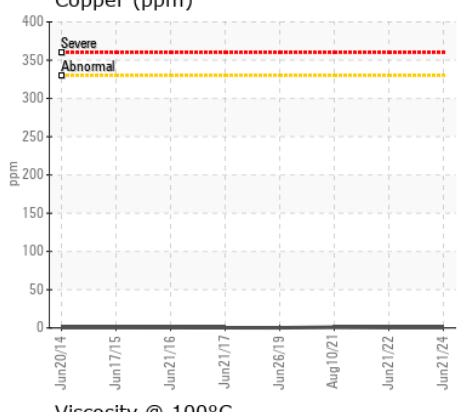
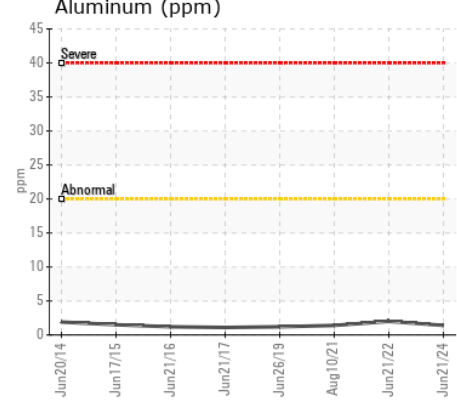
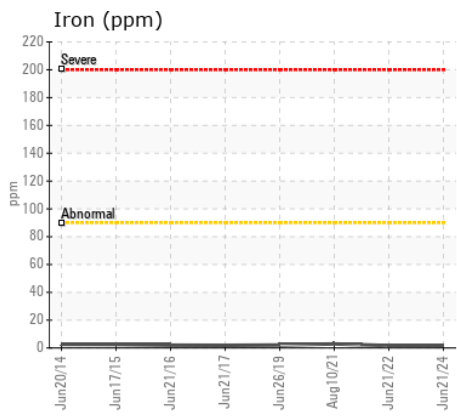
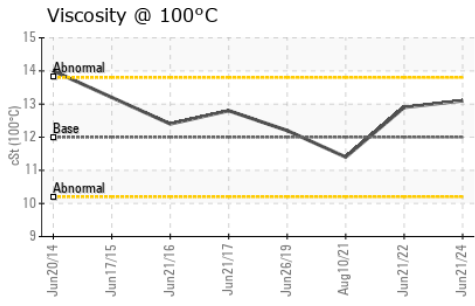
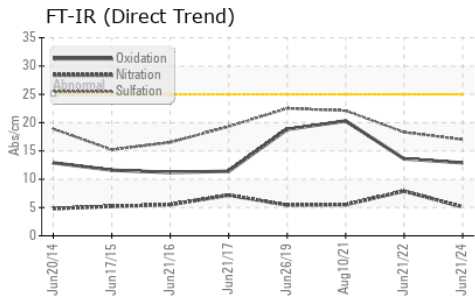
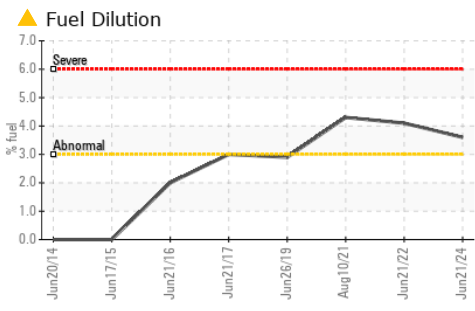
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	13	12
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	▲ 3.6	▲ 4.1	▲ 4.3
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	5.1	7.9	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	18.3	22.1
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>16	1	3	3
Boron	ppm	ASTM D5185(m)		15	70	59
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		48	75	36
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		749	81	476
Calcium	ppm	ASTM D5185(m)	2550	1193	2036	1507
Phosphorus	ppm	ASTM D5185(m)	1000	957	901	736
Zinc	ppm	ASTM D5185(m)	1120	1112	1038	▲ 807
Sulfur	ppm	ASTM D5185(m)		2626	2959	▲ 1988
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	13.6	20.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	13.1	▲ 12.9	▲ 11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006196 **Received** : 28 Jun 2024
Lab Number : 02644489 **Tested** : 02 Jul 2024
Unique Number : 5802028 **Diagnosed** : 02 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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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