



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85752]
 Machine Id
109 SCOTT ST. WALKERTON 6A0260343 6A0260343

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA SAE 30 (30 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005846	PN0002469	PN0001024
Sample Date		Client Info		18 Apr 2024	08 Jun 2021	30 Apr 2020
Machine Age	hrs	Client Info		765	710	683
Oil Age	hrs	Client Info		0	27	20
Filter Age	hrs	Client Info		0	27	20
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	2	1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>30	2	2	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

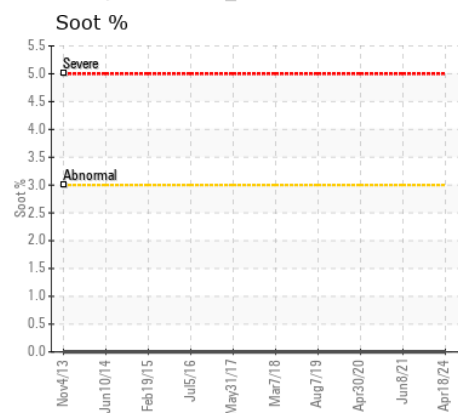
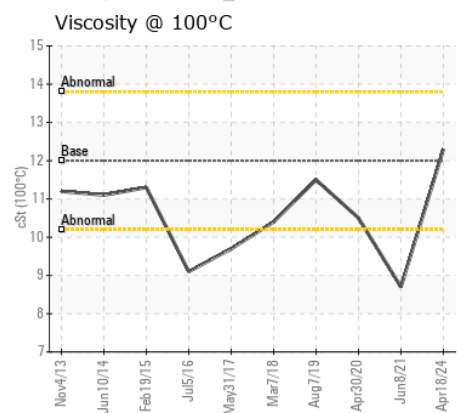
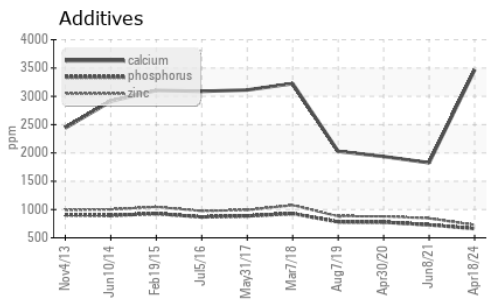
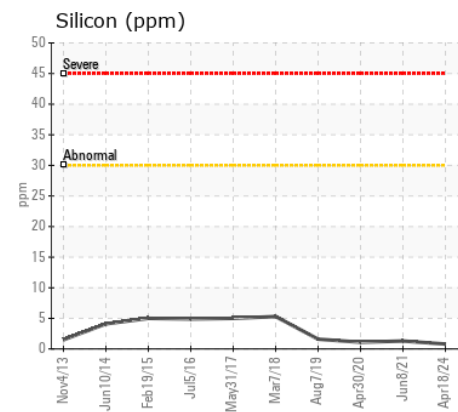
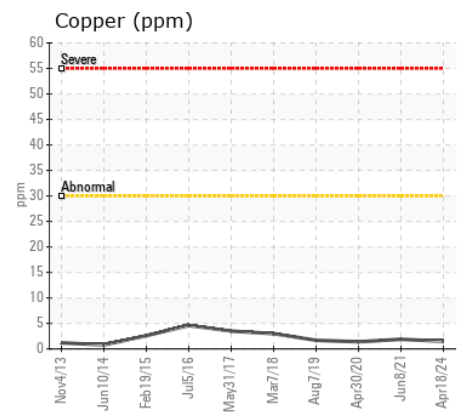
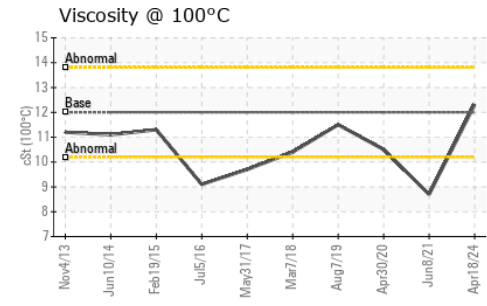
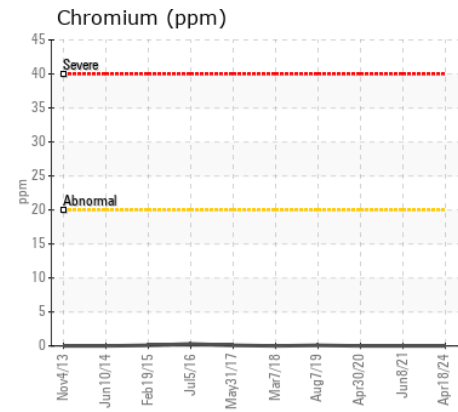
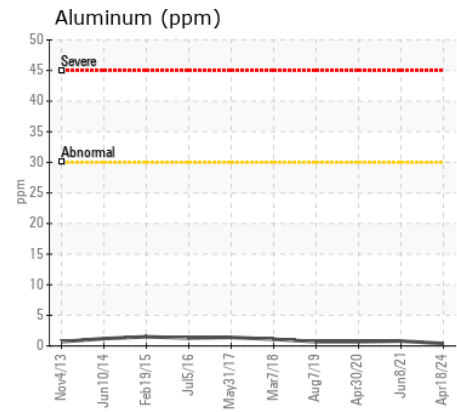
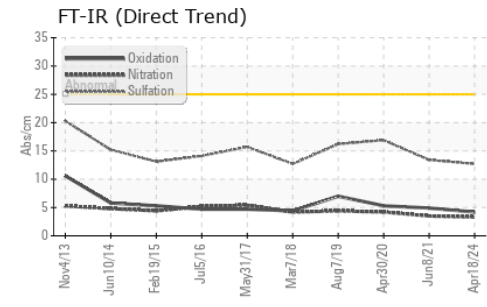
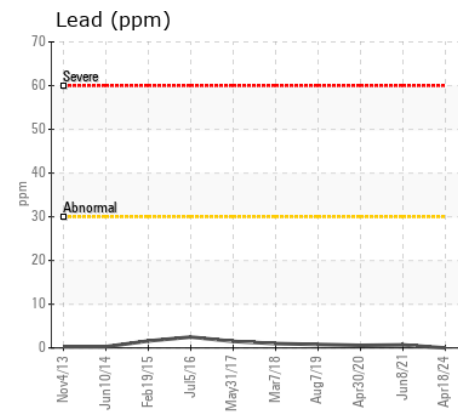
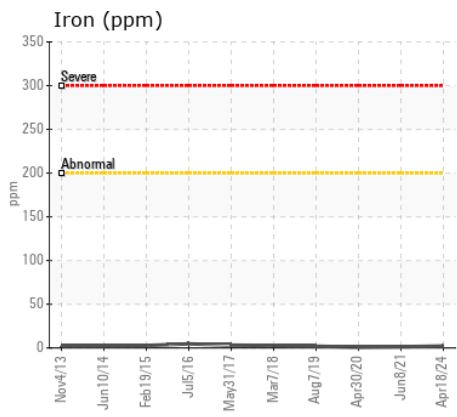
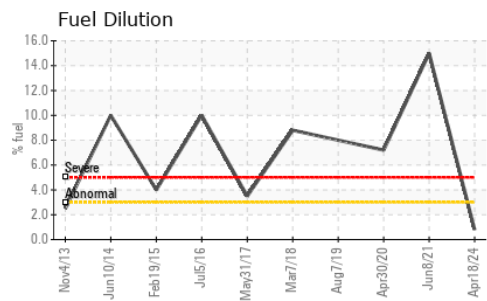
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<1	1	1
Potassium	ppm	ASTM D5185(m)	>20	0	1	<1
Fuel	%	ASTM D7593*	>3.0	0.8	▲ 15	▲ 7.2
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	3.3	3.5	4.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.7	13.4	16.9
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	---	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>16	3	6	15
Boron	ppm	ASTM D5185(m)		13	11	18
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		7	11	21
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		53	57	46
Calcium	ppm	ASTM D5185(m)	2550	3467	1826	1936
Phosphorus	ppm	ASTM D5185(m)	1000	661	729	777
Zinc	ppm	ASTM D5185(m)	1120	727	844	879
Sulfur	ppm	ASTM D5185(m)		2173	2032	2106
Oxidation	Abs/.1mm	ASTM D7414*	>25	4.2	4.9	5.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	12.3	▲ 8.7	▲ 10.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005846 **Received** : 26 Apr 2024
Lab Number : 02631518 **Tested** : 29 Apr 2024
Unique Number : 5772671 **Diagnosed** : 29 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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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.