



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86919]

Machine Id

15964 HURONTARIO ST, INGLEWOOD WTP #2 REGION OF PEEL RG6081T0100

Component

Rear Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (23 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006266	PN0004874	PN0002816
Sample Date		Client Info		11 Jun 2024	20 Jun 2023	01 Sep 2021
Machine Age	hrs	Client Info		1227	1201	1079
Oil Age	hrs	Client Info		14	0	0
Filter Age	hrs	Client Info		14	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	3	4	4
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	<1	2	2
Lead	ppm	ASTM D5185(m)	>26	0	0	0
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

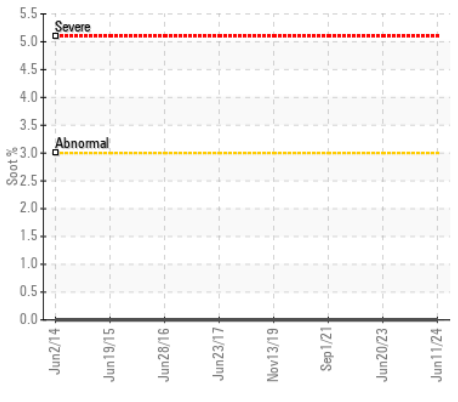
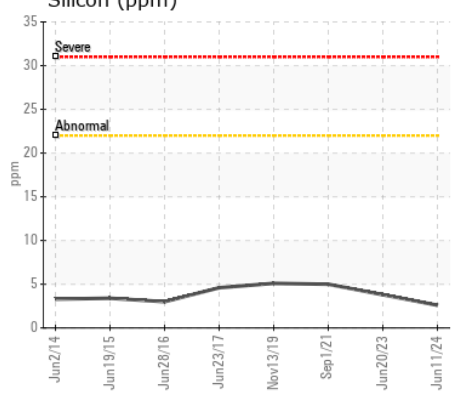
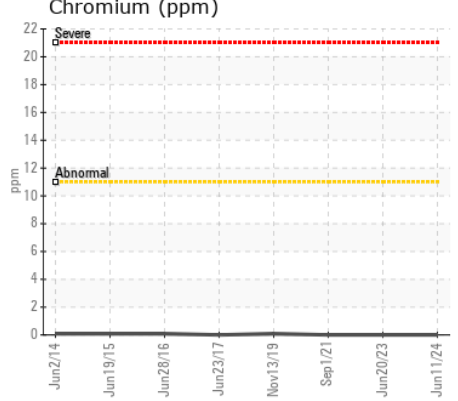
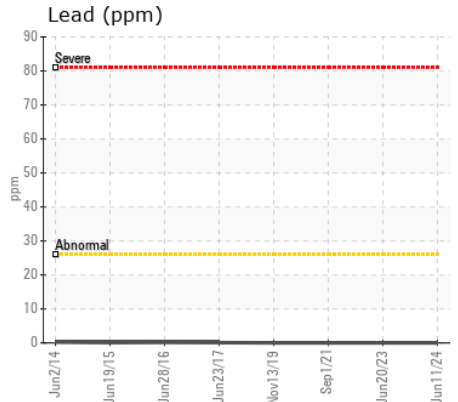
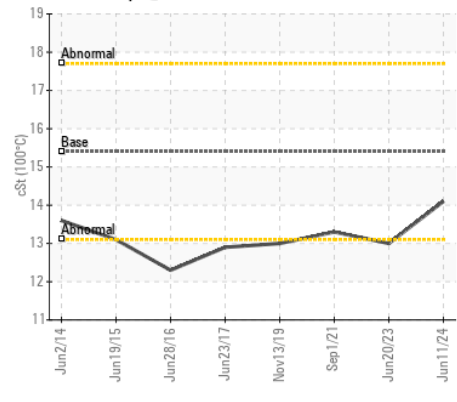
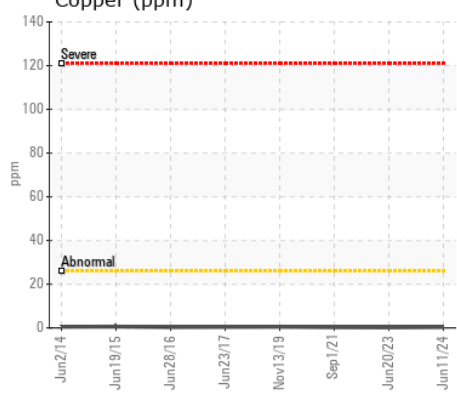
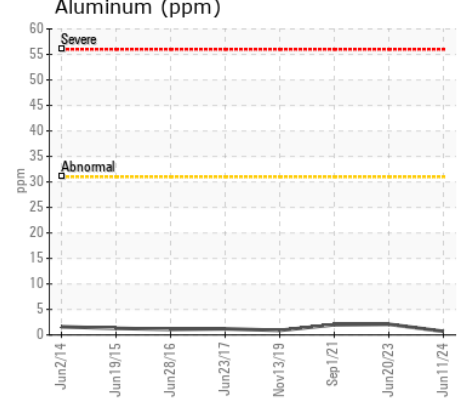
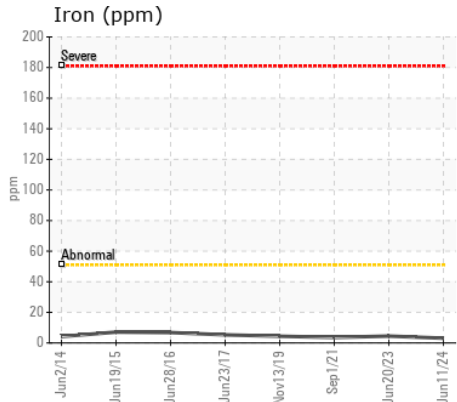
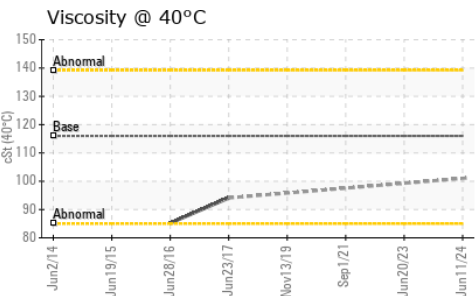
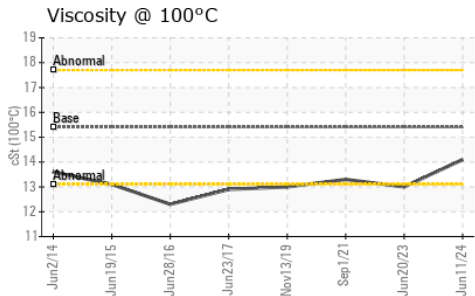
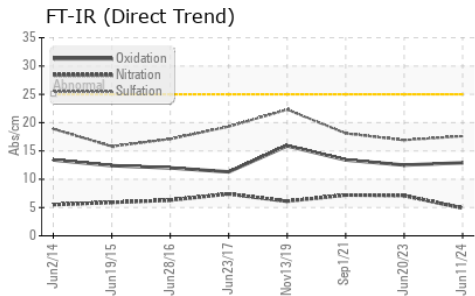
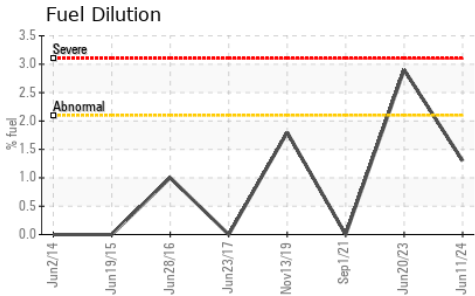
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel	%	ASTM D7593*	>2.1	1.3	▲ 2.9	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.9	7.1	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	16.9	18.1
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	1	<1	2
Boron	ppm	ASTM D5185(m)		9	65	77
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	19	69
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		834	98	173
Calcium	ppm	ASTM D5185(m)	3780	1159	1991	1952
Phosphorus	ppm	ASTM D5185(m)	1370	984	1089	1036
Zinc	ppm	ASTM D5185(m)	1500	1146	1115	1116
Sulfur	ppm	ASTM D5185(m)	3800	2629	3144	3188
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	12.5	13.4
Visc @ 40°C	cSt	ASTM D7279(m)	116	101	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	▲ 13.0	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	140	142	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006266 **Received** : 18 Jun 2024
Lab Number : 02642539 **Tested** : 19 Jun 2024
Unique Number : 5800078 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI, 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.