



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
City of Mount Pearl
 Machine Id
INTERNATIONAL 20-15G
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000834	OF0001007	---
Sample Date		Client Info		17 Jun 2024	12 Dec 2023	---
Machine Age	hrs	Client Info		4014	0	---
Oil Age	hrs	Client Info		453	1015	---
Filter Age	hrs	Client Info		250	1015	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	22	36	---
Chromium	ppm	ASTM D5185(m)	>5	1	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	5	8	---
Lead	ppm	ASTM D5185(m)	>25	0	<1	---
Copper	ppm	ASTM D5185(m)	>100	2	3	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

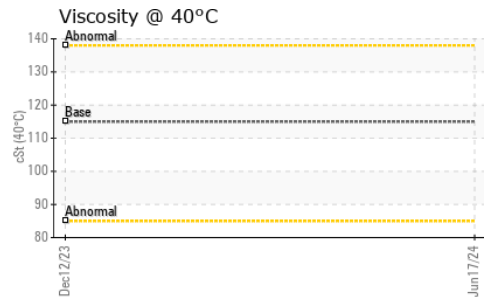
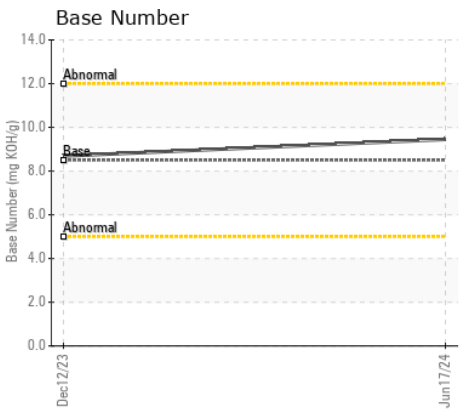
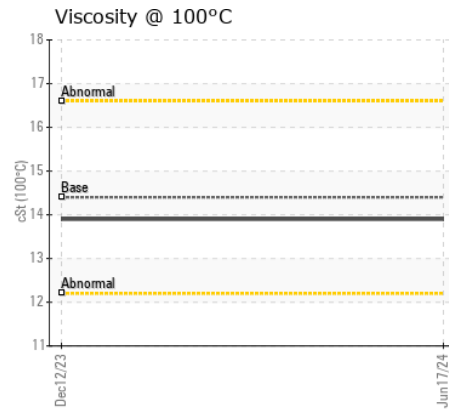
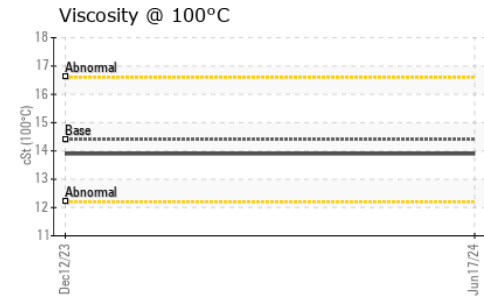
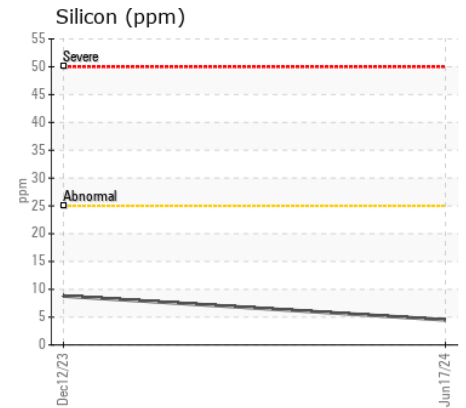
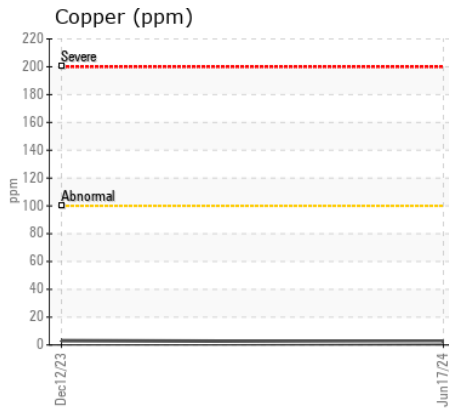
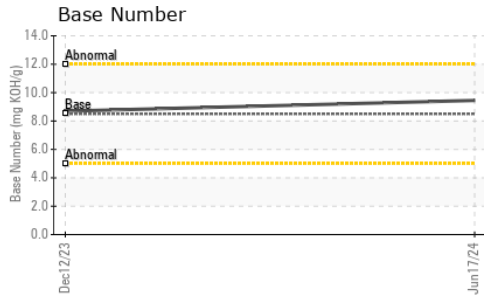
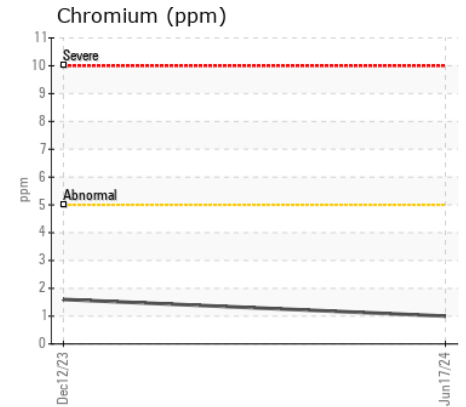
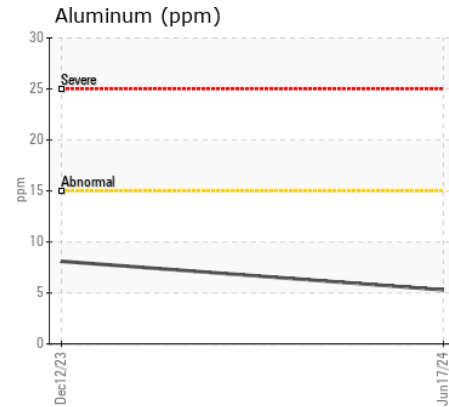
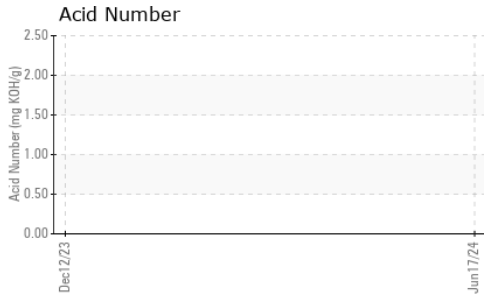
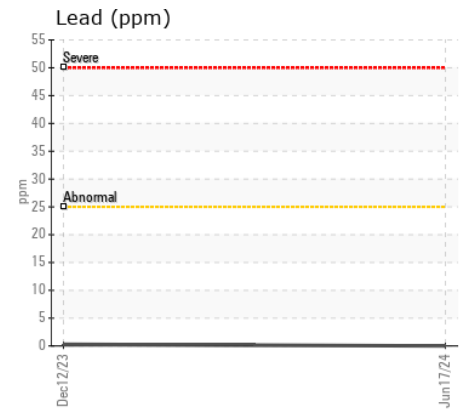
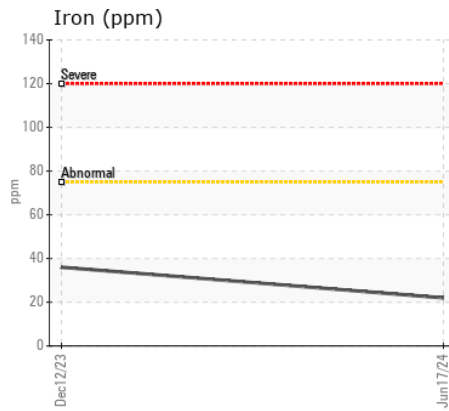
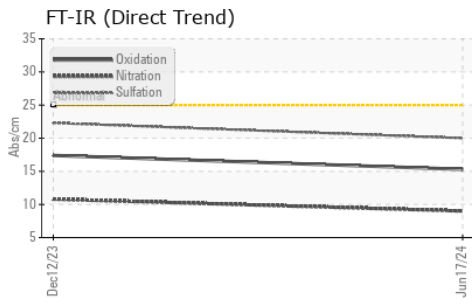
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	9	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0.6	1	---
Nitration	Abs/cm	ASTM D7624*	>20	9.0	10.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	22.3	---
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	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>158	5	4	---
Boron	ppm	ASTM D5185(m)	250	<1	1	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	59	63	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	450	954	1003	---
Calcium	ppm	ASTM D5185(m)	3000	1037	1075	---
Phosphorus	ppm	ASTM D5185(m)	1150	963	977	---
Zinc	ppm	ASTM D5185(m)	1350	1183	1223	---
Sulfur	ppm	ASTM D5185(m)	4250	2445	2366	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3	17.4	---
Acid Number (AN)	mg KOH/g	ASTM D974*		2.12	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.45	8.69	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	102	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	13.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	137	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000834 **Received** : 26 Jun 2024
Lab Number : 02644119 **Tested** : 27 Jun 2024
Unique Number : 5801658 **Diagnosed** : 27 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, 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.