



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
City of Mount Pearl
Machine Id
KENWORTH 21-18D
Component
Diesel Engine
Fluid
SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000726	---	---
Sample Date		Client Info		17 Jun 2024	---	---
Machine Age	hrs	Client Info		2023	---	---
Oil Age	hrs	Client Info		1500	---	---
Filter Age	hrs	Client Info		1500	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	54	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	5	---	---
Lead	ppm	ASTM D5185(m)	>40	1	---	---
Copper	ppm	ASTM D5185(m)	>330	74	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

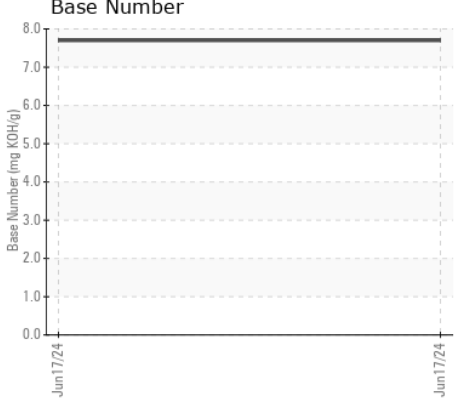
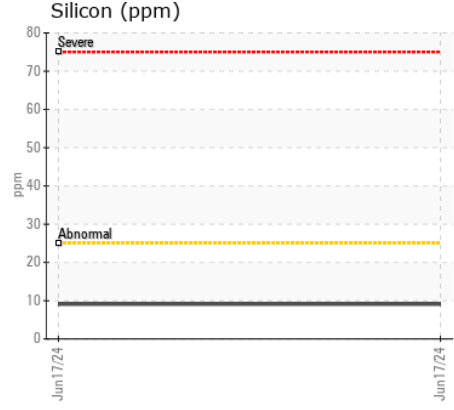
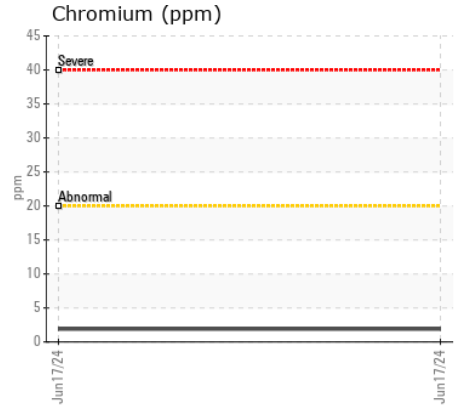
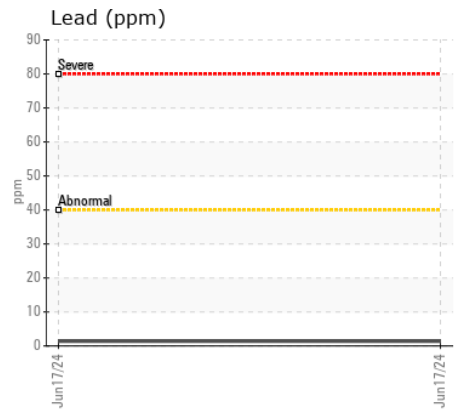
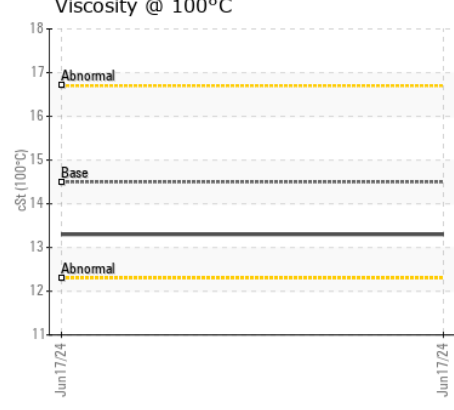
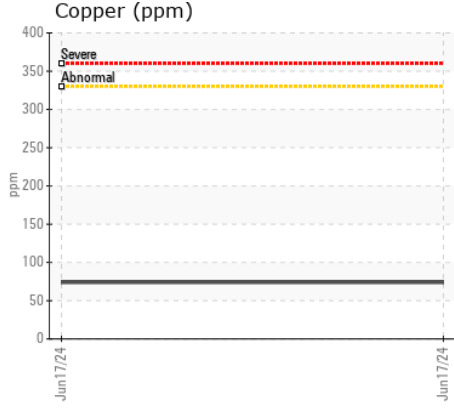
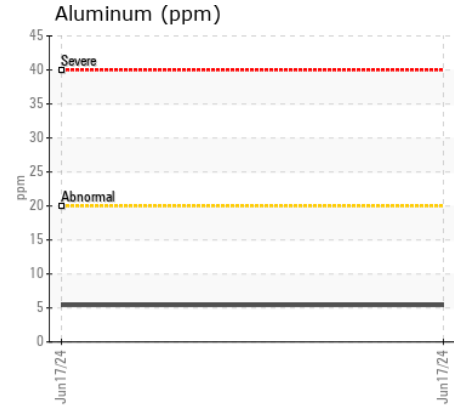
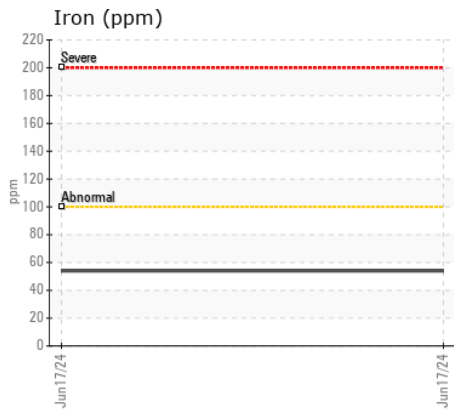
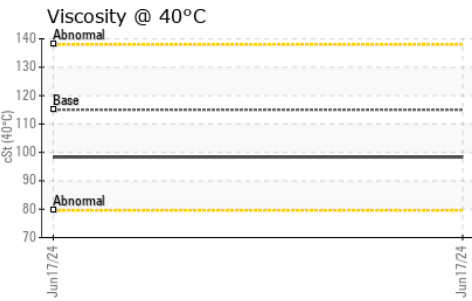
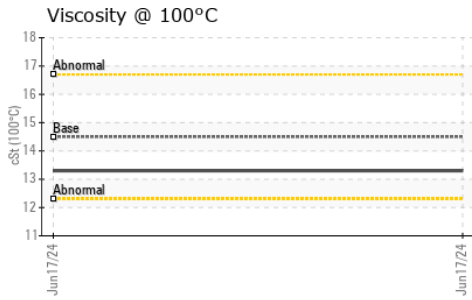
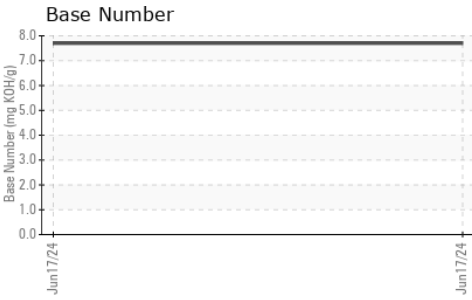
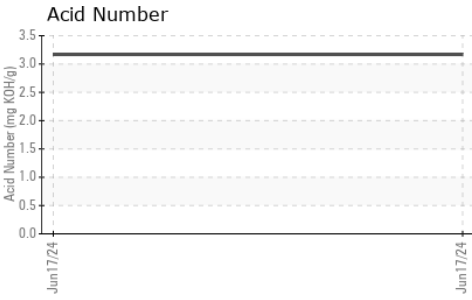
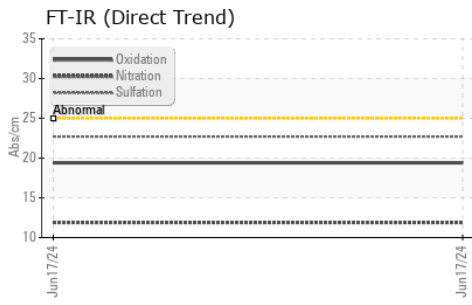
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	---	---
Potassium	ppm	ASTM D5185(m)	>20	4	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	---	---
Emulsified Water	scalar	Visual*	>0.2	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)	>57	7	---	---
Boron	ppm	ASTM D5185(m)		9	---	---
Barium	ppm	ASTM D5185(m)		2	---	---
Molybdenum	ppm	ASTM D5185(m)		66	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)		827	---	---
Calcium	ppm	ASTM D5185(m)		1062	---	---
Phosphorus	ppm	ASTM D5185(m)		749	---	---
Zinc	ppm	ASTM D5185(m)		1025	---	---
Sulfur	ppm	ASTM D5185(m)		1986	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		3.17	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.70	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	98.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	13.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	128	133	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000726
Lab Number : **02644121**
Unique Number : 5801660
Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, VI)

Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 Jun 2024 - Kevin Marson

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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.