



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DG # (S/N HCM134C1)
 Component
1 Auxiliary Engine
 Fluid
SHELL 15W40 (60 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0722085	---	---
Sample Date		Client Info		22 Apr 2023	---	---
Machine Age	hrs	Client Info		8530	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>35	3	---	---
Chromium	ppm	ASTM D5185(m)	>4	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	<1	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	2	---	---
Lead	ppm	ASTM D5185(m)	>7	1	---	---
Copper	ppm	ASTM D5185(m)	>65	5	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

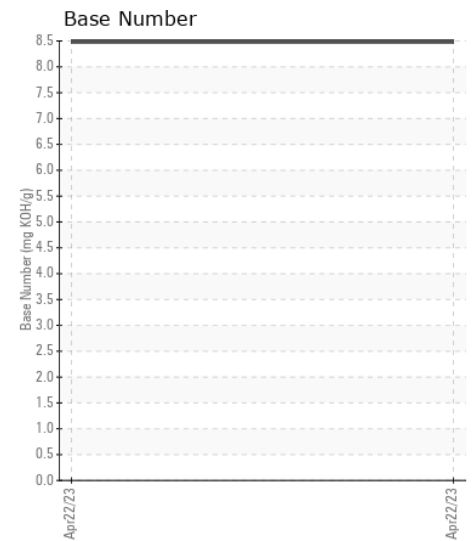
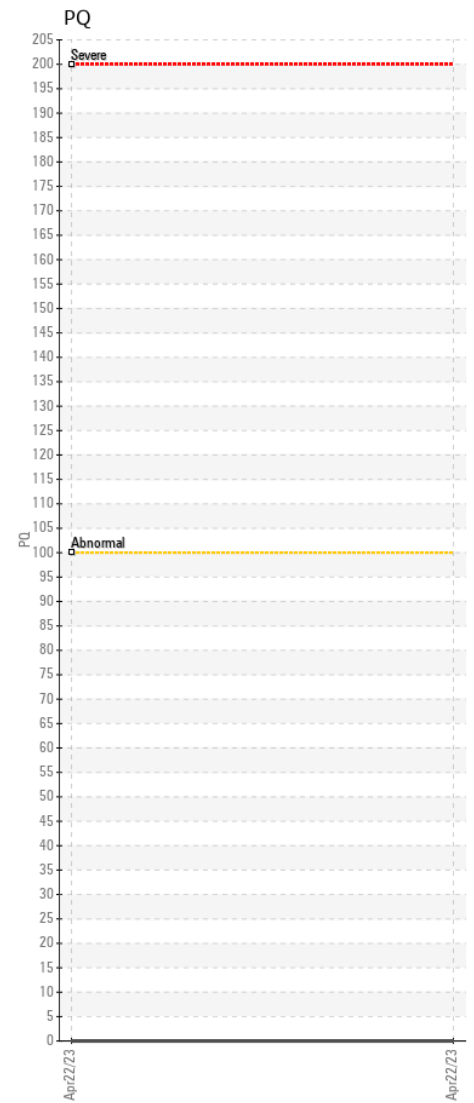
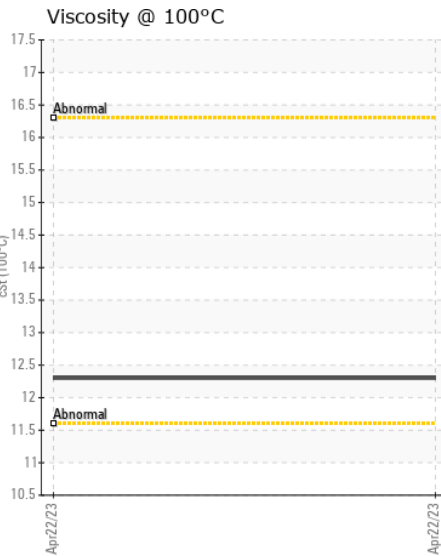
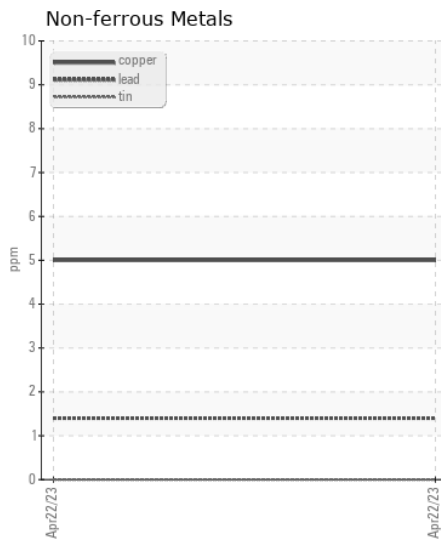
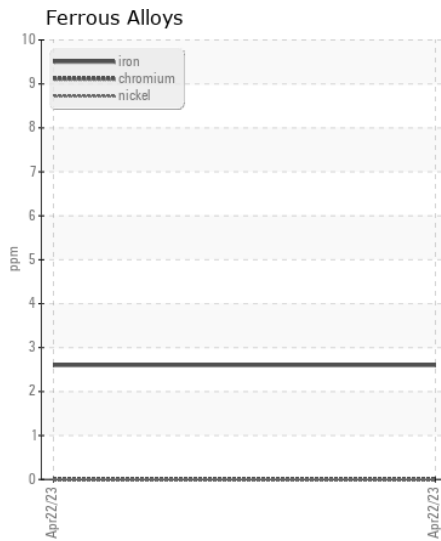
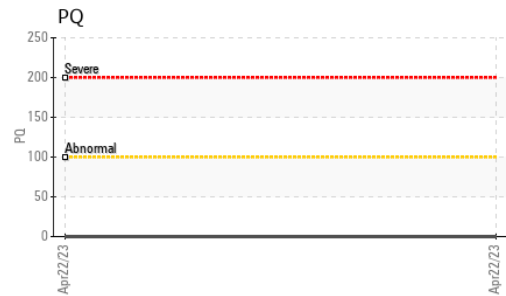
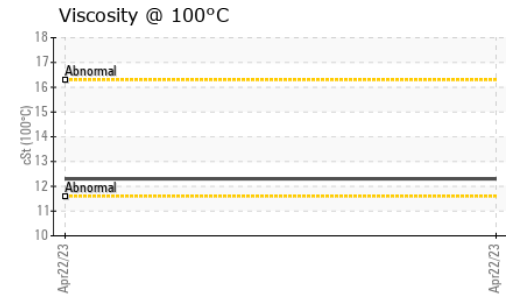
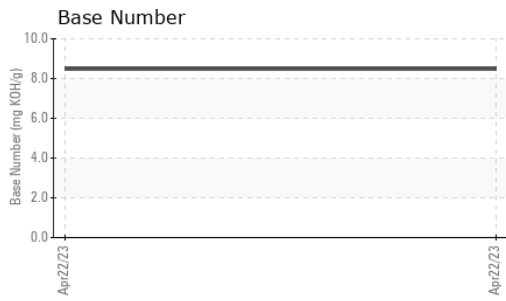
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>150	9	---	---
Boron	ppm	ASTM D5185(m)		107	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		59	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		467	---	---
Calcium	ppm	ASTM D5185(m)		1700	---	---
Phosphorus	ppm	ASTM D5185(m)		1091	---	---
Zinc	ppm	ASTM D5185(m)		1153	---	---
Sulfur	ppm	ASTM D5185(m)		3170	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.48	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.3	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CANSHIP UGLAND - CRT EXPRESS**
Sample No. : WC0722085 **Received** : 28 Apr 2023 1315 TOPSAIL ROAD, PO BOX 8040 STN A
Lab Number : 02554063 **Diagnosed** : 28 Apr 2023 ST JOHNS, NL
Unique Number : 5567078 **Diagnostician** : Wes Davis CA A1B 3M7
Test Package : MAR 2 (Additional Tests: PQ) Contact: Peter Collins

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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