



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
EGR-5911 #1 (S/N 106723)
 Component
Inboard Air Compressor
 Fluid
SHELL CORENA S4 P 100 (4 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0827866	WC0827874	WC0619201
Sample Date		Client Info		26 Mar 2024	05 Sep 2023	02 Jun 2022
Machine Age	hrs	Client Info		1752	1460	5637
Oil Age	hrs	Client Info		100	0	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		2	0	4
Iron	ppm	ASTM D5185(m)	>50	12	7	22
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	4
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>40	<1	1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

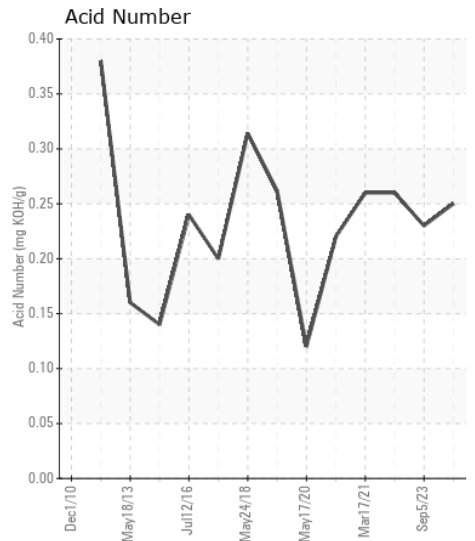
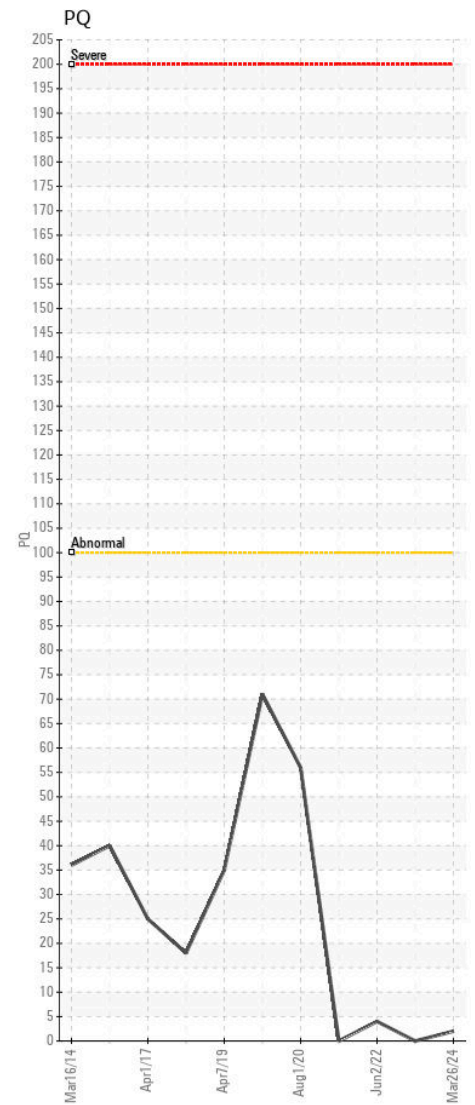
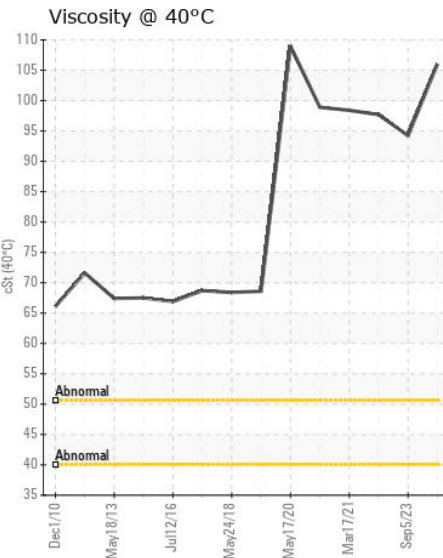
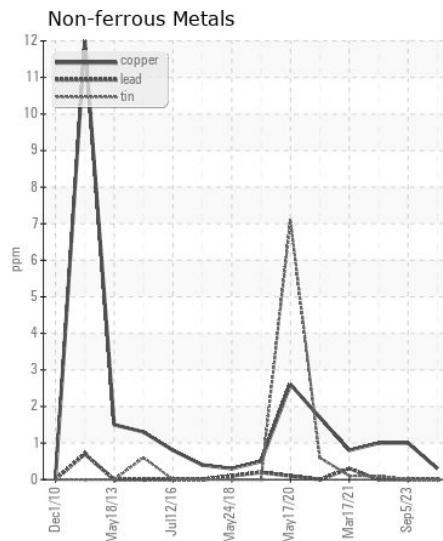
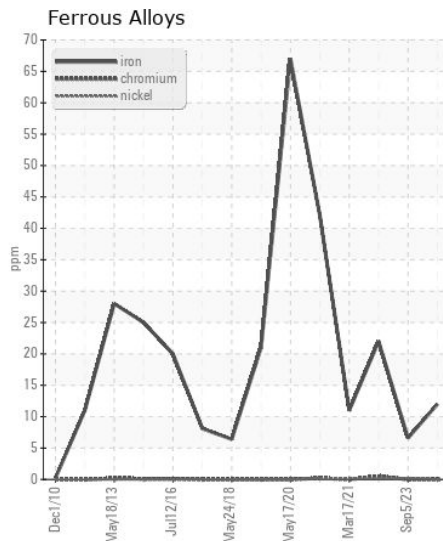
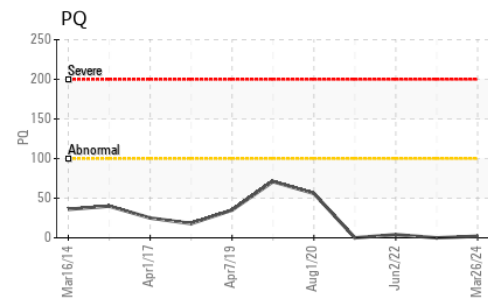
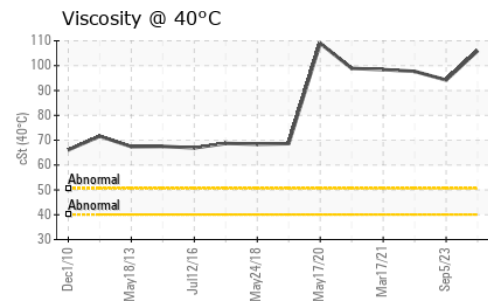
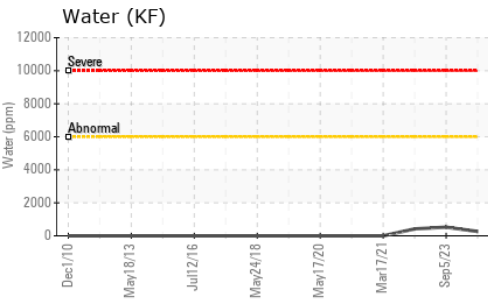
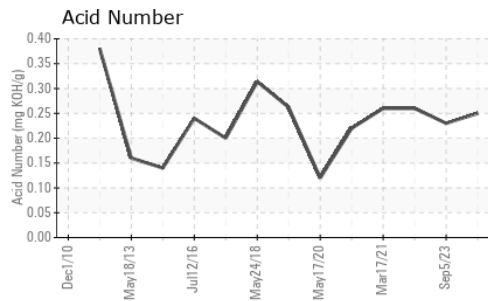
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water	%	ASTM D6304*	>0.6	0.026	0.052	0.041
ppm Water	ppm	ASTM D6304*	>6000	264	524.3	419.6
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		1	<1	1
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		<1	0	<1
Calcium	ppm	ASTM D5185(m)		<1	● 3	● <1
Phosphorus	ppm	ASTM D5185(m)		83	92	83
Zinc	ppm	ASTM D5185(m)		3	● 17	● 5
Sulfur	ppm	ASTM D5185(m)		15	● 58	● 7
Acid Number (AN)	mg KOH/g	ASTM D974*		0.25	0.23	0.26
Visc @ 40°C	cSt	ASTM D7279(m)		106	94.2	97.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0827866 **Received** : 05 Apr 2024
Lab Number : 02627009 **Tested** : 08 Apr 2024
Unique Number : 5760141 **Diagnosed** : 08 Apr 2024 - Kevin Marson
Test Package : MAR 2 (Additional Tests: KF)

DFO, CCGS EARL GREY
 PO BOX 1006, 1 CHALLENGER DR.
 DARTMOUTH, NS
 CA B2Y 4A2
 Contact: Chief Engineer
 earlgreyCE@EGR.ccs-ngcc.gc.ca
 T: (902)456-9285
 F: (902)456-9285

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.