



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
AH3111 - Auxiliary Generator

Component
Genset

Fluid
DIESEL ENGINE OIL SAE 15W40 (138 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0740136	WC0740135	WC0740134
Sample Date		Client Info		04 Aug 2023	09 Jul 2023	14 Jun 2023
Machine Age	hrs	Client Info		20900	20312	19748
Oil Age	hrs	Client Info		500	552	570
Filter Age	hrs	Client Info		500	552	570
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>25	4	4	4
Chromium	ppm	ASTM D5185(m)	>5	<1	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

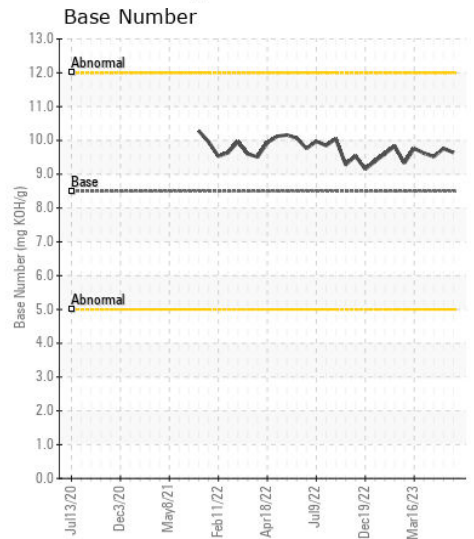
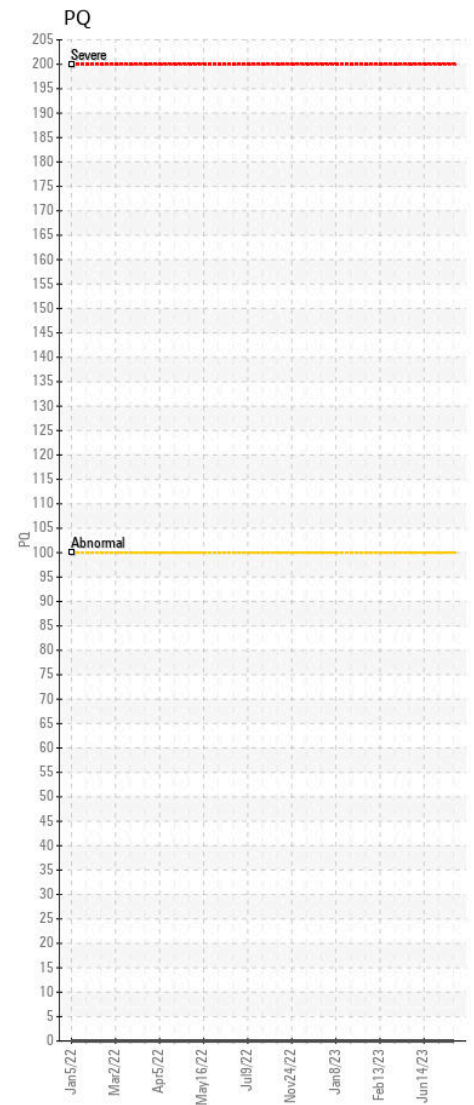
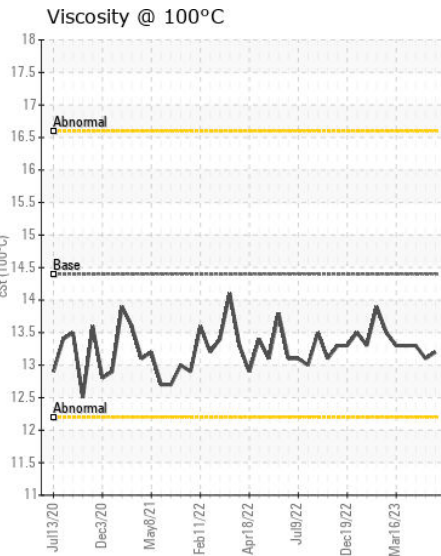
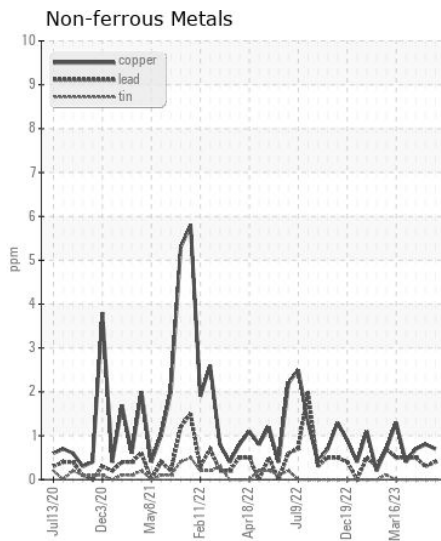
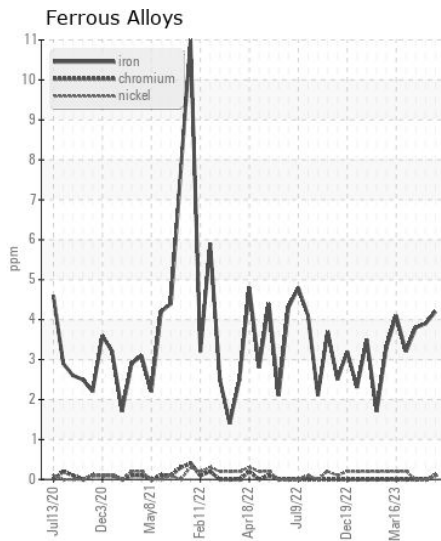
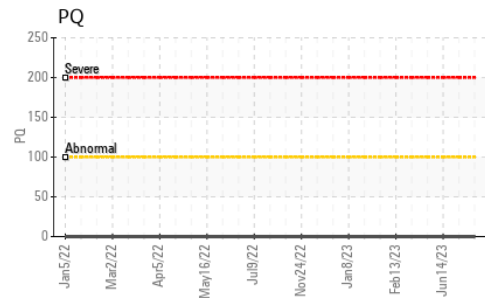
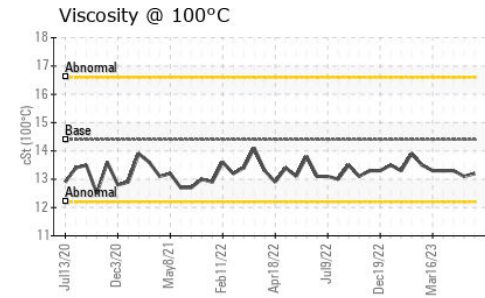
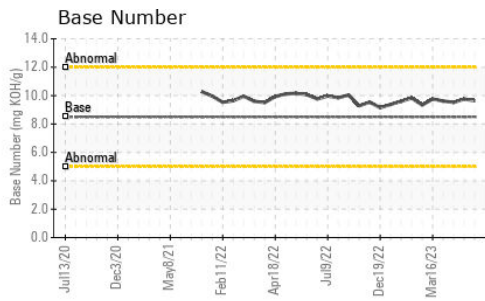
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.8	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	19.2	18.9
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	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)	>158	2	2	2
Boron	ppm	ASTM D5185(m)	250	2	2	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	54	55	53
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	910	915	886
Calcium	ppm	ASTM D5185(m)	3000	1408	1399	1390
Phosphorus	ppm	ASTM D5185(m)	1150	1040	1073	1017
Zinc	ppm	ASTM D5185(m)	1350	1160	1175	1145
Sulfur	ppm	ASTM D5185(m)	4250	3008	3032	2922
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	14.4	14.7
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.64	9.76	9.52
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.2	13.1	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0740136
Lab Number : 02576078
Unique Number : 5629138
Test Package : MAR 2 (Additional Tests: PQ)
Received : 16 Aug 2023
Tested : 17 Aug 2023
Diagnosed : 17 Aug 2023 - Wes Davis

CANADIAN COAST GUARD/DFO
 CCGS ANN HARVEY, P.O. BOX 5667
 ST. JOHN'S, NL
 CA A1C 5X1
 Contact: Chief Engineer
 annharveyce@ccgs-ngcc.gc.ca
 T:
 F: (709)772-3652

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.