



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
375 SEA RAY
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

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		WC0910617	WC0515867	---
Sample Date		Client Info		21 Mar 2024	25 Mar 2021	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	7	13	---
Chromium	ppm	ASTM D5185(m)	>20	<1	1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		7	66	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	3	17	---
Lead	ppm	ASTM D5185(m)	>40	4	5	---
Copper	ppm	ASTM D5185(m)	>330	197	129	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---

CONTAMINATION

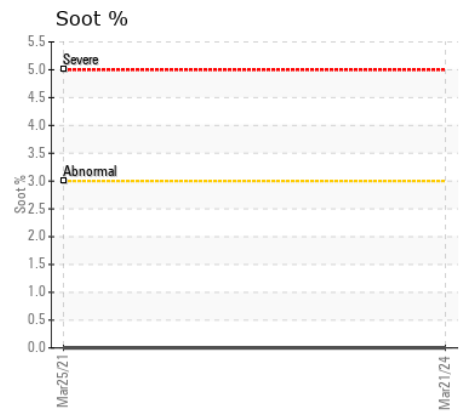
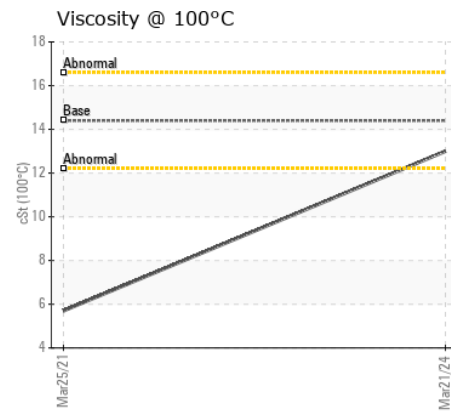
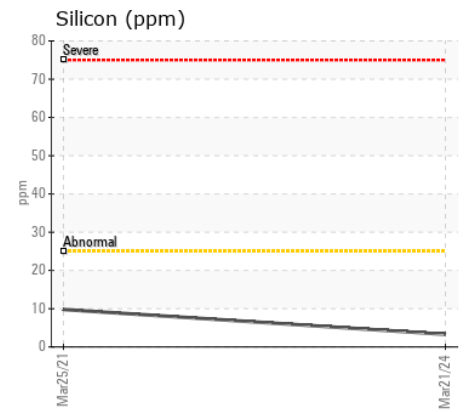
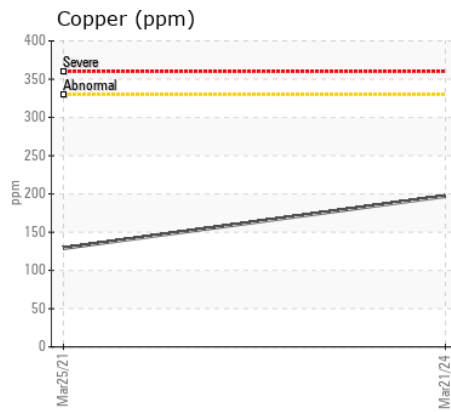
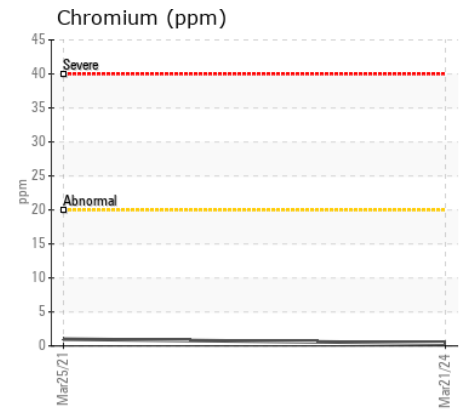
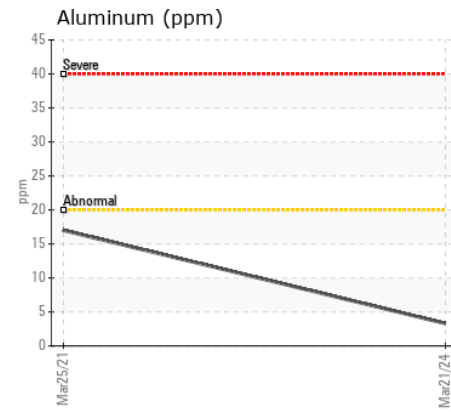
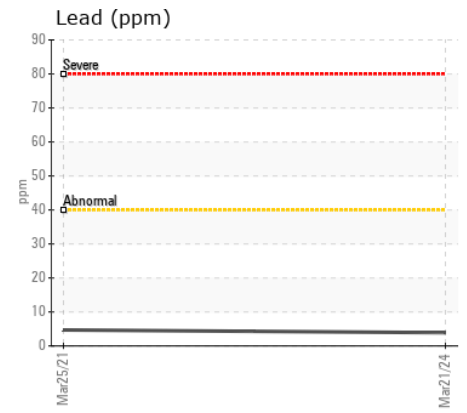
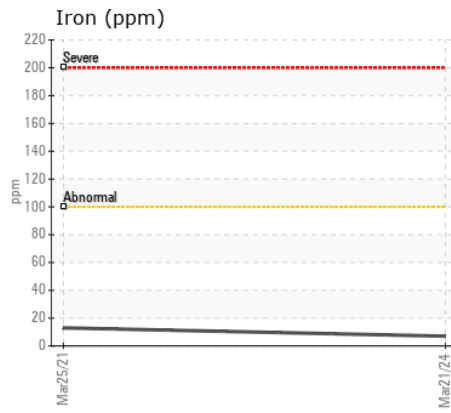
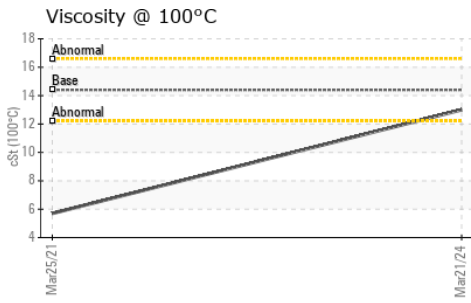
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	10	---
Potassium	ppm	ASTM D5185(m)	>20	7	58	---
Fuel		WC Method	>5	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.7	9.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	16.8	---
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	5	13	---
Boron	ppm	ASTM D5185(m)	250	13	123	---
Barium	ppm	ASTM D5185(m)	10	<1	4	---
Molybdenum	ppm	ASTM D5185(m)	100	55	6	---
Manganese	ppm	ASTM D5185(m)		0	1	---
Magnesium	ppm	ASTM D5185(m)	450	870	359	---
Calcium	ppm	ASTM D5185(m)	3000	1090	1559	---
Phosphorus	ppm	ASTM D5185(m)	1150	1028	968	---
Zinc	ppm	ASTM D5185(m)	1350	1117	1171	---
Sulfur	ppm	ASTM D5185(m)	4250	2780	3433	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.4	14.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.0	▲ 5.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910617
Lab Number : 02625618
Unique Number : 5750737
Test Package : MOB 1

Received : 01 Apr 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 2024 - Wes Davis

NORTHERN GENERATOR CO. LTD.
 80 ASHBRIDGE CIRCLE., UNIT #1 & 2
 WOODBRIDGE, ON
 CA L4L 3R5
 Contact: Selome Afework
 selome@northerngenerator.com
 T: (905)264-9744
 F: (905)264-9714

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.