



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
NORTHERN LIGHTS K30118
 Component
Genset
 Fluid
DIESEL ENGINE OIL SAE 15W40 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA039165	---	---
Sample Date		Client Info		10 May 2024	---	---
Machine Age	hrs	Client Info		960	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	2	---	---
Chromium	ppm	ASTM D5185(m)	>4	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>5	0	---	---
Aluminum	ppm	ASTM D5185(m)	>12	<1	---	---
Lead	ppm	ASTM D5185(m)	>17	0	---	---
Copper	ppm	ASTM D5185(m)	>70	2	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

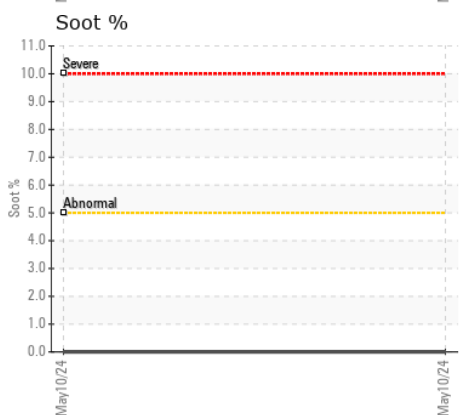
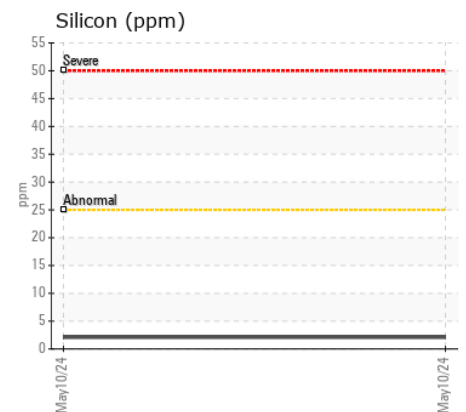
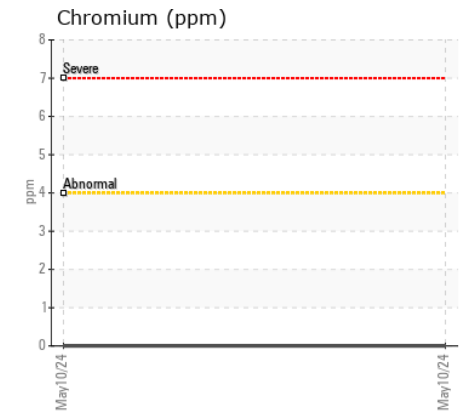
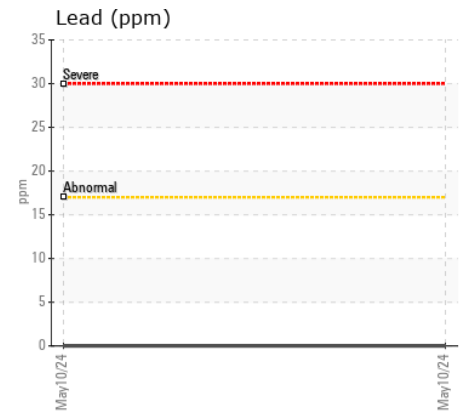
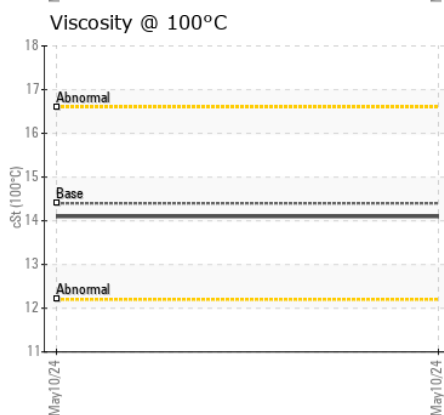
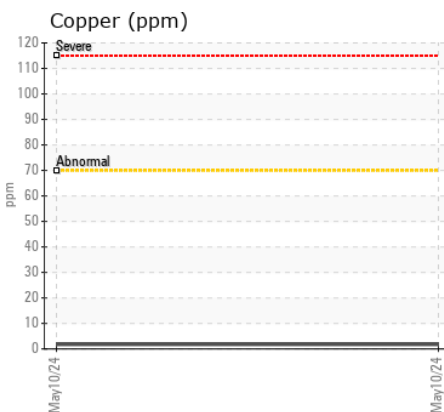
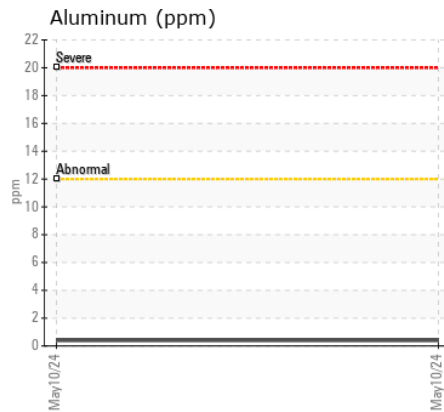
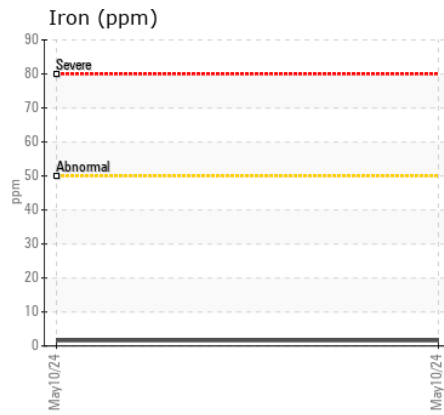
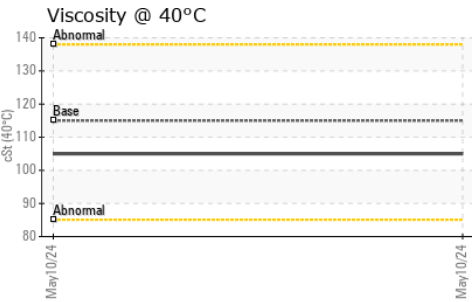
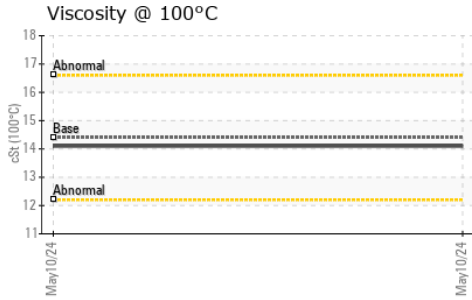
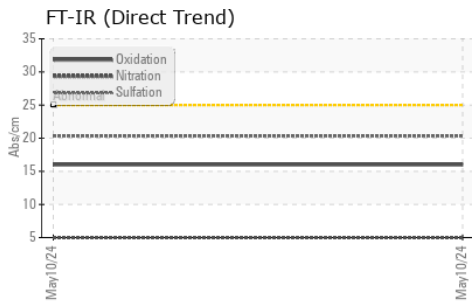
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	6	---	---
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	5.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	2	---	---
Boron	ppm	ASTM D5185(m)	250	183	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	11	---	---
Calcium	ppm	ASTM D5185(m)	3000	2032	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	925	---	---
Zinc	ppm	ASTM D5185(m)	1350	1044	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2815	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.0	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	105	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	136	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VPA039165 **Received** : 15 May 2024
Lab Number : 02635654 **Tested** : 15 May 2024
Unique Number : 5776807 **Diagnosed** : 15 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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 CARP, ON
 CA K0A 1L0
 Contact: Mark Baskin
 mbaskin4@hotmail.com

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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F: