WEAR CHECK
OIL ANALYSIS REPORT

MOB II

WEAR	**NORMAL**
CONTAMINATION	**NORMAL**
FLUID CONDITION	**ABNORMAL**

Machine Id
GAN DIESEL
Component
Diesel Engine
Fluid
{not provided} (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample. 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		**WC0445342**	WC0445227	---
Sample Date		Client Info		**07 Dec 2022**	03 Apr 2022	---
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				**ABNORMAL**	ABNORMAL	---

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>100	**23**	23	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	---
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**<1**	0	---
Silver	ppm	ASTM D5185(m)	>3	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	**7**	7	---
Lead	ppm	ASTM D5185(m)	>40	**2**	3	---
Copper	ppm	ASTM D5185(m)	>330	**8**	8	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	---
Vanadium	ppm	ASTM D5185(m)		**<1**	0	---

CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

| Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185(m)	>25	**9**	11	---
Potassium	ppm	ASTM D5185(m)	>20	**3**	2	---
Fuel	%	ASTM D7593*	>5	**1.8**	▲ 2.1	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---
Soot %	%	ASTM D7844*	>3	**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**7.2**	7.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.7**	22.2	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is suitable for further service.

| Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185(m)		**4**	4	---
Boron	ppm	ASTM D5185(m)		**256**	263	---
Barium	ppm	ASTM D5185(m)		**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)		**247**	244	---
Manganese	ppm	ASTM D5185(m)		**2**	2	---
Magnesium	ppm	ASTM D5185(m)		**804**	841	---
Calcium	ppm	ASTM D5185(m)		**1456**	1361	---
Phosphorus	ppm	ASTM D5185(m)		**964**	946	---
Zinc	ppm	ASTM D5185(m)		**1027**	1033	---
Sulfur	ppm	ASTM D5185(m)		**2735**	2648	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.8**	15.8	---
Base Number (BN)	mg KOH/g	ASTM D2896*		**7.10**	10.88	---
Visc @ 100°C	cSt	ASTM D7279(m)		▲ **10.2**	▲ 10.3	---

Viscosity @ 100°C
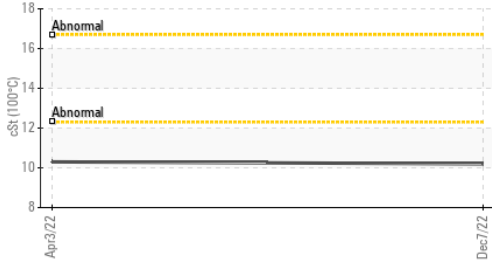
Iron (ppm)
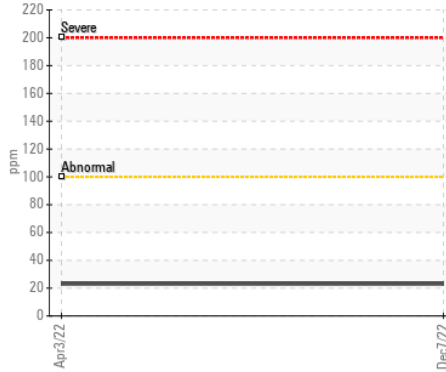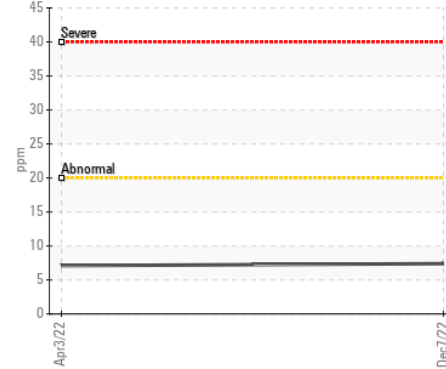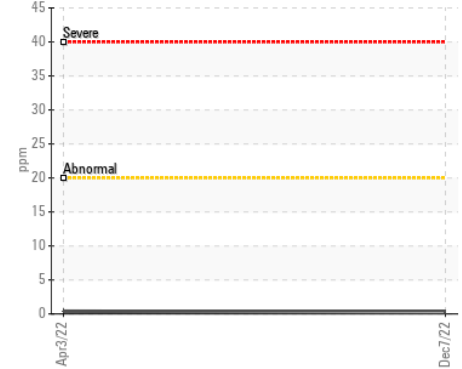

Lead (ppm)
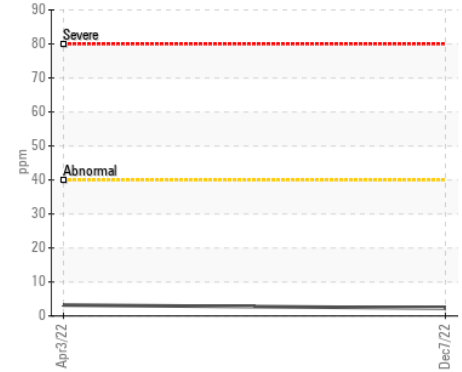
Fuel Dilution
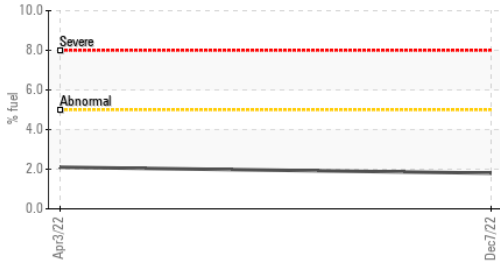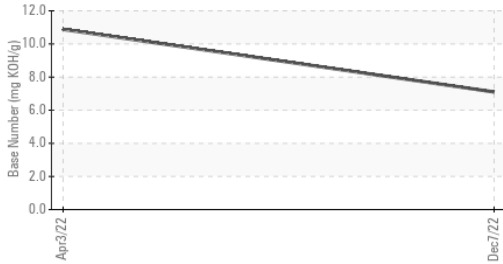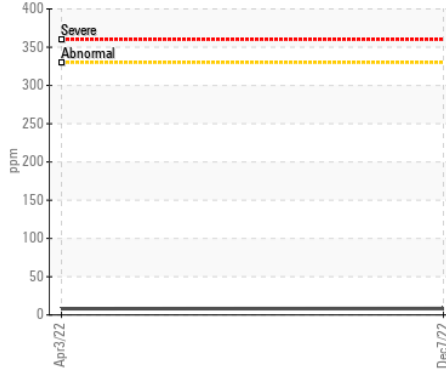

Aluminum (ppm)

Chromium (ppm)
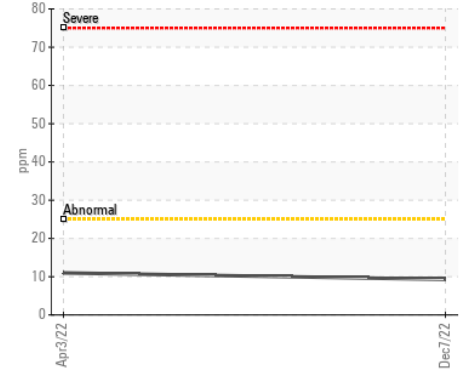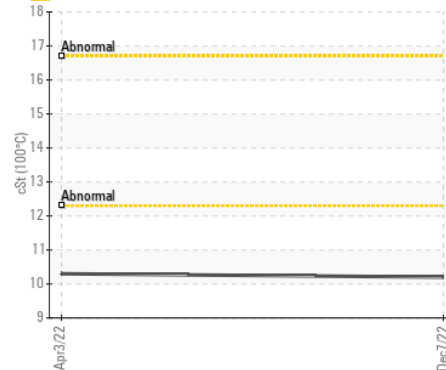

Base Number

Copper (ppm)
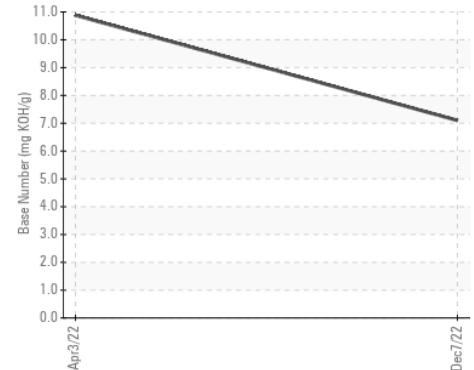

Silicon (ppm)

Viscosity @ 100°C

Base Number

NEWFOUNDLAND POWER INC.
50 DUFFY PLACE, PO BOX 8910
ST. JOHNS, NL
CA A1B 3P6
Contact: Paul Martin
pmartin@newfoundlandpower.com
T:
F: (709)737-2926