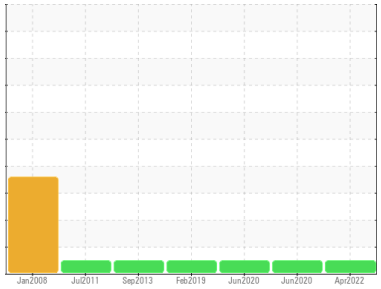
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
GFW DIESEL (S/N I060967959)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (27 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0445231**	WC985088	WC0316767
Sample Date		Client Info		**03 Apr 2022**	18 Jun 2020	16 Jun 2020
Machine Age	hrs	Client Info		**0**	261	0
Oil Age	hrs	Client Info		**0**	261	0
Oil Changed		Client Info		**N/A**	Not Changd	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

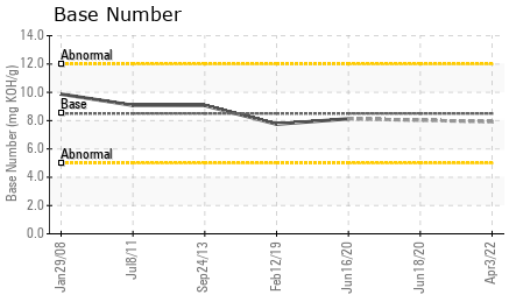
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**6**	7	7
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**1**	1	2
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	<1	1
Lead	ppm	ASTM D5185(m)	>40	**2**	1	2
Copper	ppm	ASTM D5185(m)	>330	**5**	4	4
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	<1

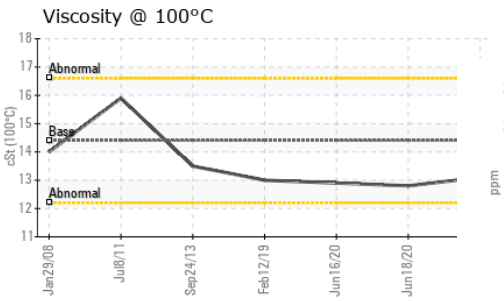
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**2**	2	2
Barium	ppm	ASTM D5185(m)	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	**43**	46	44
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	**835**	864	844
Calcium	ppm	ASTM D5185(m)	3000	**1187**	1300	1227
Phosphorus	ppm	ASTM D5185(m)	1150	**1053**	1103	1078
Zinc	ppm	ASTM D5185(m)	1350	**1206**	1317	1264
Sulfur	ppm	ASTM D5185(m)	4250	**2913**	3154	3101
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	5	5
Sodium	ppm	ASTM D5185(m)	>216	**4**	3	2
Potassium	ppm	ASTM D5185(m)	>20	**1**	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**6.8**	8.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.9**	22.4	22.9

OIL ANALYSIS REPORT



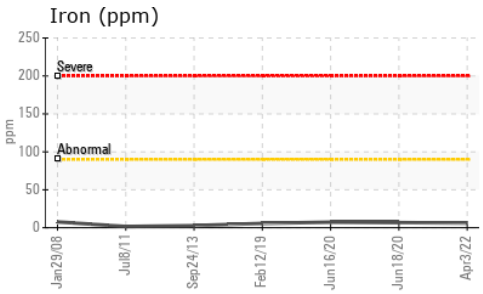


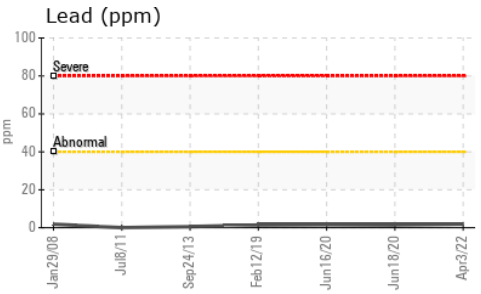
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.3**	13.4	13.6
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	**7.92**	---	8.13

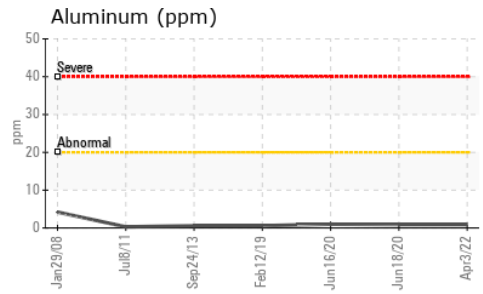
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

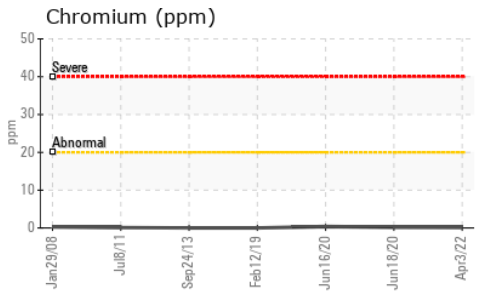
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.1**	12.8	12.9

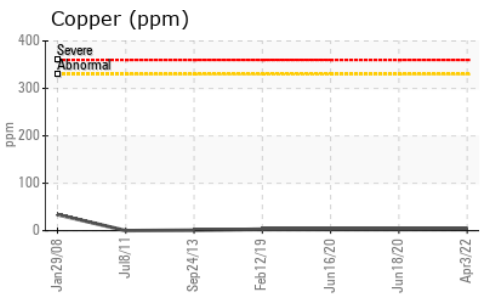
GRAPHS

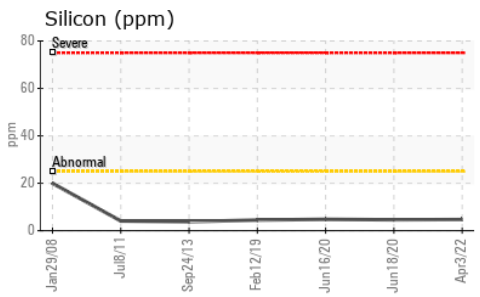


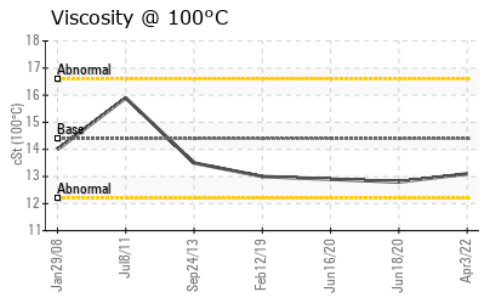


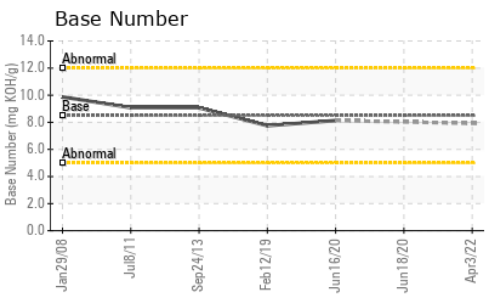












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0445231
Lab Number : 02481040
Unique Number : 5381977
Test Package : MOB 2

Recieved : 04 Apr 2022
Diagnosed : 05 Apr 2022
Diagnostician : Wes Davis

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.

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