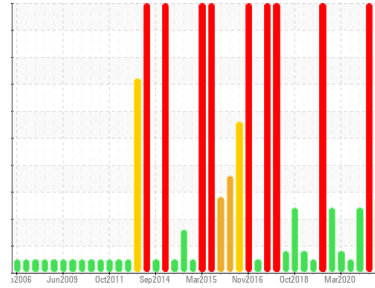




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[191873]
 Machine Id
WBK G THBR
 Component
Bearing
 Fluid
ESSO TERESSO ISO 68 (10 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend that you change the oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Free water present.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0445264	WC0445259	WC971613
Sample Date	Client Info		14 Mar 2022	20 Oct 2021	15 Mar 2021
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			ABNORMAL	SEVERE	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		23	0	0
Iron	ppm	ASTM D5185(m) >63	29	21	4
Chromium	ppm	ASTM D5185(m)	1	1	0
Nickel	ppm	ASTM D5185(m)	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >2	2	1	<1
Lead	ppm	ASTM D5185(m) >161	4	3	1
Copper	ppm	ASTM D5185(m) >13	10	▲ 23	▲ 16
Tin	ppm	ASTM D5185(m) >27	18	■ 59	11
Antimony	ppm	ASTM D5185(m)	2	▲ 5	1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.5	<1	<1	<1
Barium	ppm	ASTM D5185(m) 0.4	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1	0
Magnesium	ppm	ASTM D5185(m) 0	0	1	0
Calcium	ppm	ASTM D5185(m) 0	<1	3	<1
Phosphorus	ppm	ASTM D5185(m) 0.7	134	115	125
Zinc	ppm	ASTM D5185(m) 0	55	23	25
Sulfur	ppm	ASTM D5185(m) 1315	2435	2391	2425
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

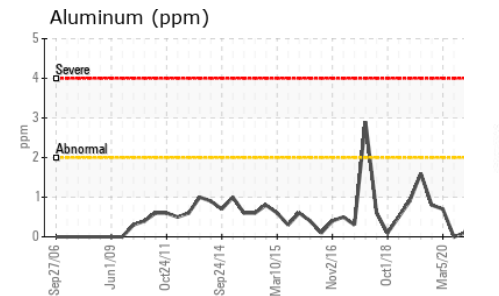
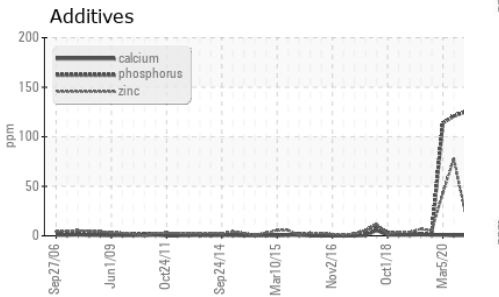
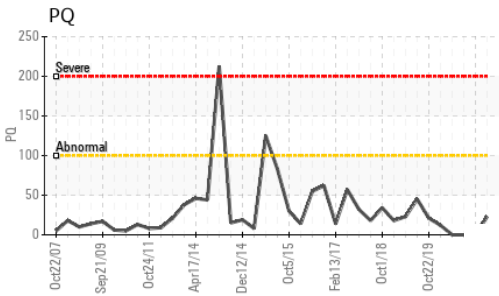
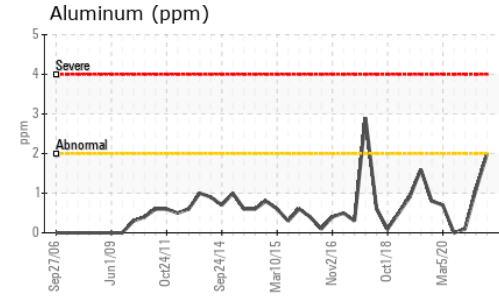
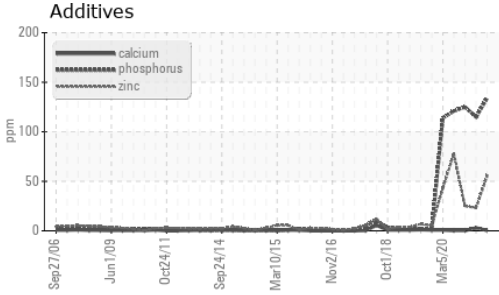
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >12	3	4	1
Sodium	ppm	ASTM D5185(m)	<1	5	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.02	0.11	0.08	0.06

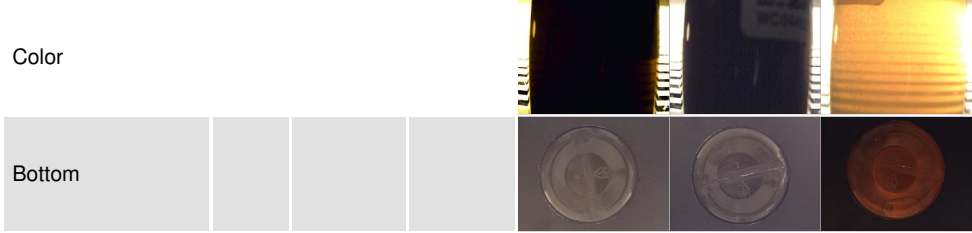
OIL ANALYSIS REPORT



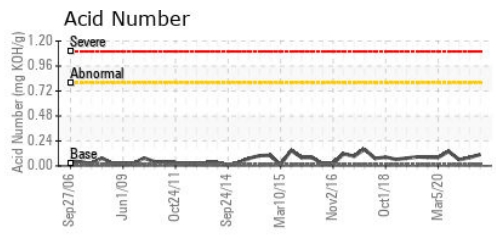
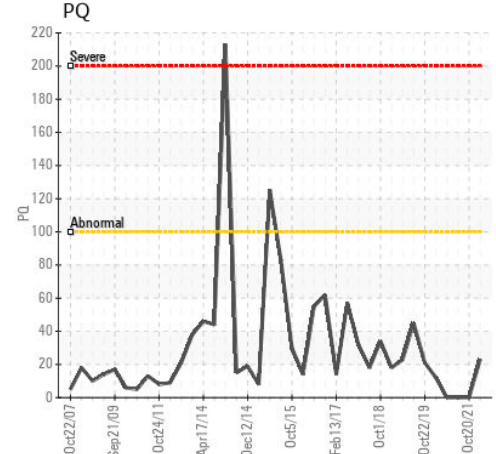
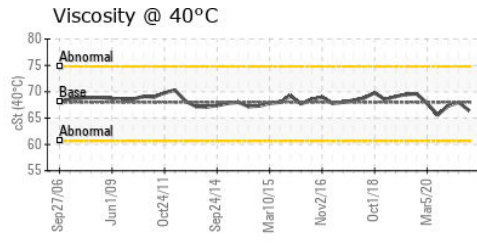
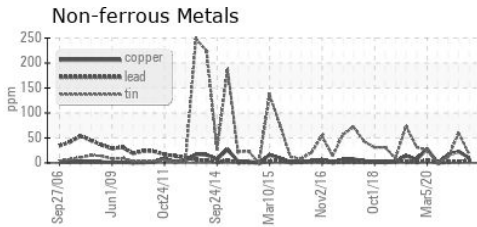
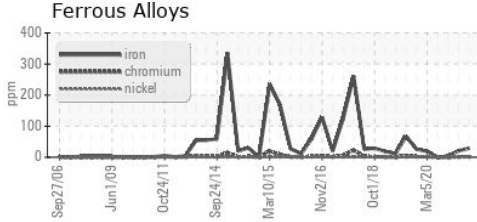
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	▲ LIGHT	▲ LIGHT	NONE
Silt	scalar	Visual*	LIGHT	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	▲ 1%	.1%
Free Water	scalar	Visual*		▲ 1%	▲ 1%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	66.4	68.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0445264 **Received** : 04 Apr 2022
Lab Number : 02481156 **Diagnosed** : 06 Apr 2022
Unique Number : 5382093 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, TAN Man)

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