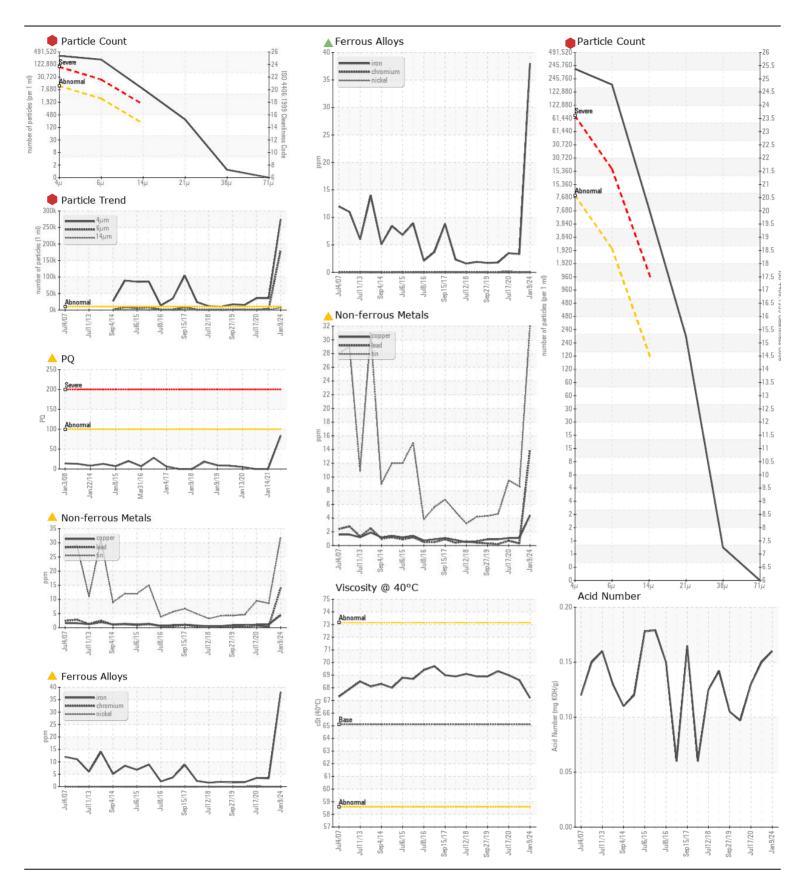
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL SEVERE NORMAL

PHR-G2-TUBR

Component Bearing

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	WC0706127	WC0327913	WC0327998
We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Date		Client Info		09 Jan 2024	14 Jan 2021	17 Jul 2020
	Machine Age	days	Client Info		0	0	0
	Oil Age	days	Client Info		0	0	0
	Filter Age	days	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184*		<u>^</u> 84	0	0
PQ levels are abnormal. Tin and antimony ppm levels are abnormal. Iron and lead ppm levels are noted. Bearing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.	Iron	ppm	ASTM D5185(m)	>63	38	3	4
	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
	Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Lead	ppm	ASTM D5185(m)	>161	14	<1	<1
	Copper	ppm	ASTM D5185(m)	>13	4	1	1
	Tin	ppm	ASTM D5185(m)	>2/	<u>^</u> 32	9	10
	Vanadium White Metal	ppm	ASTM D5185(m)	NONE	0 NONE	0	0 NONE
	Yellow Metal	scalar	Visual* Visual*	NONE	NONE	NONE NONE	NONE
<u></u>	Tellow Metal	scalar	v isuai	NONE	NONE	INOINE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		2	<1	<1
There is a high amount of particulates (2 to 100 microns in size) present in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
	Water		WC Method	>2	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		274477	<u>▲</u> 35643	▲ 36034
	Particles >6µm		ASTM D7647		181639	2127	1394
	Particles >14µm		ASTM D7647		● 7093 ▲ 250	95 23	19
	Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647		1	0	3
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/14	25/25/20	<u>^</u> 22/18/14	<u>^</u> 22/18/11
	Silt	scalar	Visual*	NONE	NONE	NONE	NONE
	Debris	scalar		NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
	Appearance	scalar	Visual*	NORML	HAZY	NORML	NORML
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	<1	<1
	Boron	ppm	ASTM D5185(m)		0	<1	<1
The AN level is acceptable for this fluid. The oil is no longer	Barium	ppm	ASTM D5185(m)		<1	<1	<1
serviceable as a result of the abnormal and/or severe wear. NOTE:	Molybdenum	ppm	ASTM D5185(m)		0	0	0
The color of the oil is darker then previous samples.	Manganese	ppm	ASTM D5185(m)		0	0	0
	Magnesium	ppm	ASTM D5185(m)		<1	<1	0
	Calcium	ppm	ASTM D5185(m)		4	<1	<1
	Phosphorus	ppm	ASTM D5185(m)		112	2	2
	Zinc	ppm	ASTM D5185(m)		54	3	3
	Sulfur	ppm	ASTM D5185(m)		1059	2022	2024
	Acid Number (AN)	mg KOH/g	ASTM D974*	CE 1	0.16	0.15	0.13
	Visc @ 40°C	cSt	ASTM D7279(m)	00.1	67.2	68.6	69.0





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC0706127 : 02609405 : 5710491

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 17 Jan 2024 Diagnosed

: 19 Jan 2024 Diagnostician : Kevin Marson

Test Package : IND 2 (Additional Tests: PQ, PRTCOUNT, 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