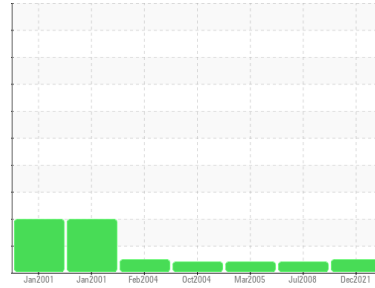




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[189553]**  
 Machine Id  
**PUN G1 GOV**  
 Component  
**Pump**  
 Fluid  
**ESSO TERESSO ISO 68 (15 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0445300</b>	WC756264	WC651309
Sample Date	Client Info		<b>30 Dec 2021</b>	09 Jul 2008	09 Mar 2005
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	19	---
Iron	ppm	ASTM D5185(m) >90	<b>&lt;1</b>	20	13
Chromium	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m) >3	<b>0</b>	<1	1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >7	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >12	<b>&lt;1</b>	7	5
Copper	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	3	4
Tin	ppm	ASTM D5185(m) >9	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

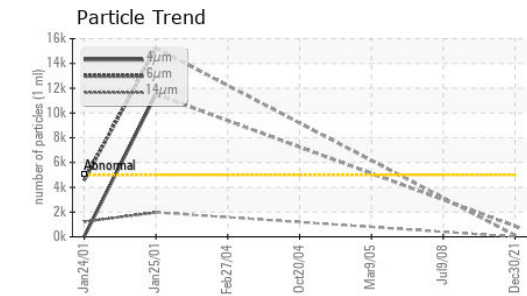
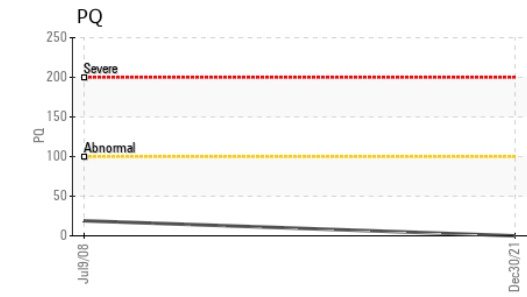
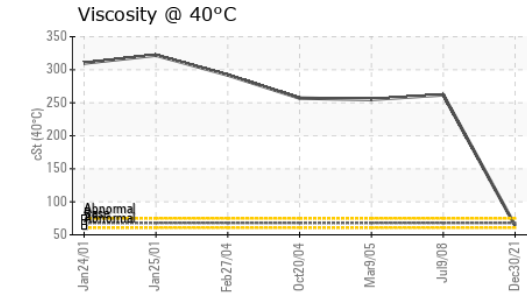
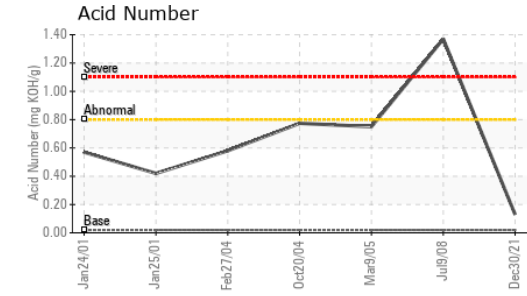
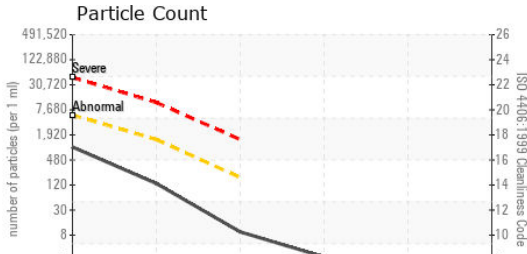
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.5	<b>&lt;1</b>	▲ 15	16
Barium	ppm	ASTM D5185(m) 0.4	<b>0</b>	▲ <1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	2	<1
Calcium	ppm	ASTM D5185(m) 0	<b>7</b>	▲ 5	4
Phosphorus	ppm	ASTM D5185(m) 0.7	<b>24</b>	▲ 428	395
Zinc	ppm	ASTM D5185(m) 0	<b>19</b>	▲ 7	2
Sulfur	ppm	ASTM D5185(m) 1315	<b>2041</b>	▲ 7794	7199
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >60	<b>0</b>	4	5
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1



# OIL ANALYSIS REPORT



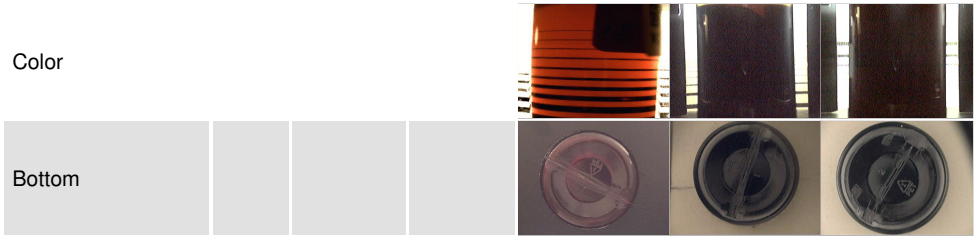
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>862</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>115</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>8</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>2</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/14/10</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.02	<b>0.13</b>	1.37	0.750

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual*		<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	68	<b>64.0</b>	▲ 262	▲ 255

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0445300 **Received** : 22 Feb 2022  
**Lab Number** : **02473272** **Diagnosed** : 24 Feb 2022  
**Unique Number** : 5358195 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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: Shane Reid  
 sreid@newfoundlandpower.com  
 T: (709)737-5209  
 F: (709)737-2926