

PROBLEM SUMMARY

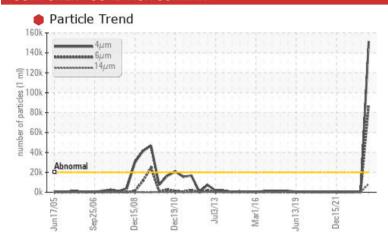
Sample Rating Trend

LOK-G1-GOV (S/N GEN #1 1583328)

Governor System

ESSO TERESSO ISO 68 (205 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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. (Customer Sample Comment: High temp in GOV tank, ran at 100° C for 3 days)

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>20000	<u> </u>	417	551				
Particles >6µm	ASTM D7647	>5000	88048	138	181				
Particles >14μm	ASTM D7647	>640	8397	9	22				
Particles >21μm	ASTM D7647	>160	1266	3	9				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	2 4/24/20	16/14/10	16/15/12				

Customer Id: NEWSTJ Sample No.: WC0455636 Lab Number: 02601570 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS Action **Status** Date Done By Description We advise that you perform a filter service, and use off-line filtration to Change Filter ? improve the cleanliness of the system fluid. Resample ? Resample in 30-45 days to monitor this situation. The air breather requires service. If unrated, we recommend that you replace with a ? **Check Breathers** suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather We advise that you check all areas where contaminants can enter the **Check Dirt Access** ? system. We advise that you perform a filter service, and use off-line filtration to Filter Fluid improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

26 Oct 2023 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



13 Jan 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



22 Jun 2022 Diag: Wes Davis

NORMAL



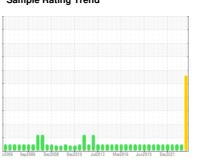
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



LOK-G1-GOV (S/N GEN #1 1583328)

Governor System

ESSO TERESSO ISO 68 (205 LTR)

DIAGNOSIS

Recommendation

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. (Customer Sample Comment: High temp in GOV tank, ran at 100° C for 3 days)

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

n2005 Sep2006 Dec2009 Dec2010 Jul2013 Mar2016 Jun2013 Dec2021								
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0455636	WC0455637	WC0455786		
Sample Date		Client Info		28 Nov 2023	26 Oct 2023	13 Jan 2023		
Machine Age	hrs	Client Info		121718	121718	121718		
Oil Age	hrs	Client Info		0	121718	0		
Oil Changed		Client Info		Not Changd	N/A	Not Changd		
Sample Status				SEVERE	NORMAL	NORMAL		
CONTAMINATION	I	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>50	0	0	0		
Chromium	ppm	ASTM D5185(m)	>10	0	0	0		
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1		
Titanium	ppm	ASTM D5185(m)		0	0	0		
Silver	ppm	ASTM D5185(m)		<1	<1	0		
Aluminum	ppm	ASTM D5185(m)	>3	0	<1	<1		
Lead	ppm	ASTM D5185(m)	>75	0	2	3		
Copper	ppm	ASTM D5185(m)	>15	<1	<1	<1		
Tin	ppm	ASTM D5185(m)	>55	0	0	0		
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1		
Vanadium	ppm	ASTM D5185(m)		0	0	0		
Beryllium	ppm	ASTM D5185(m)		0	0	0		
Cadmium	ppm	ASTM D5185(m)		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	4.5	<1	<1	<1		
Barium	ppm	ASTM D5185(m)	0.4	<1	<1	0		
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0		
Manganese	ppm	ASTM D5185(m)		0	0	0		
Magnesium	ppm	ASTM D5185(m)	0	0	0	0		
Calcium	ppm	ASTM D5185(m)	0	<1	<1	0		
Phosphorus	ppm	ASTM D5185(m)	0.7	2	1	<1		
Zinc	ppm	ASTM D5185(m)	0	<1	<1	<1		
Sulfur	ppm	ASTM D5185(m)	1315	1922	1901	1975		
Lithium	ppm	ASTM D5185(m)		<1	<1	<1		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>8	0	0	0		
Sodium	ppm	ASTM D5185(m)		0	<1	<1		
Potassium	ppm	ASTM D5185(m)	>20	0	0	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>20000	151272	417	551		
Particles >6µm		ASTM D7647	>5000	88048	138	181		
Particles >14µm		ASTM D7647	>640	8397	9	22		
Particles >21µm		ASTM D7647	>160	▲ 1266	3	9		
Particles >38µm		ASTM D7647	>40	5	0	1		
Particles >71µm		ASTM D7647	>10	0	0	0		

ISO 4406 (c) >21/19/16 **24/24/20**

Oil Cleanliness

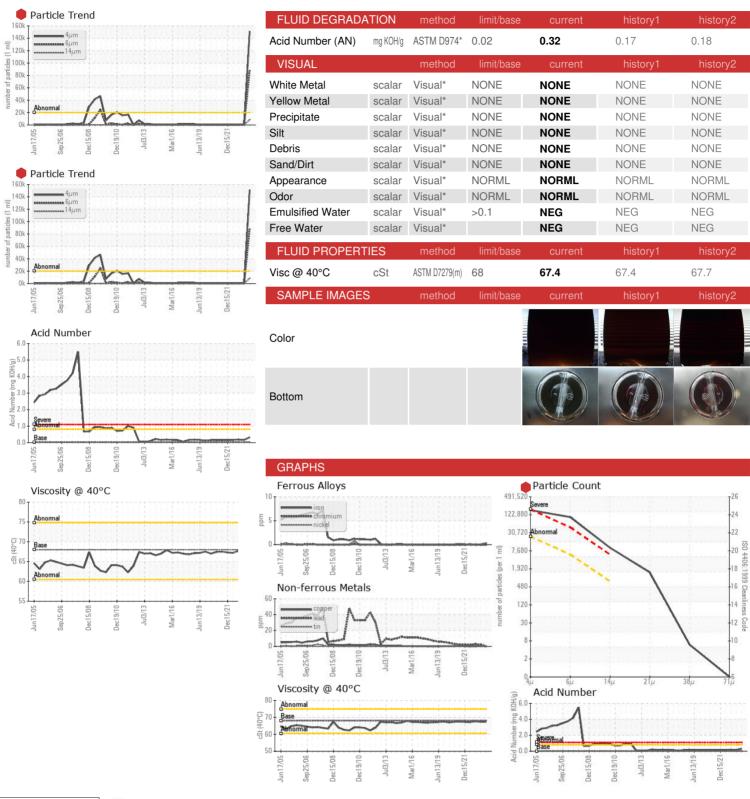
16/15/12

Submitted By: Melissa Snow

16/14/10



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02601570

: WC0455636

: 5694655

Received : 07 Dec 2023 Diagnosed Diagnostician

: 08 Dec 2023 : Kevin Marson

Test Package : IND 2 (Additional Tests: 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.

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