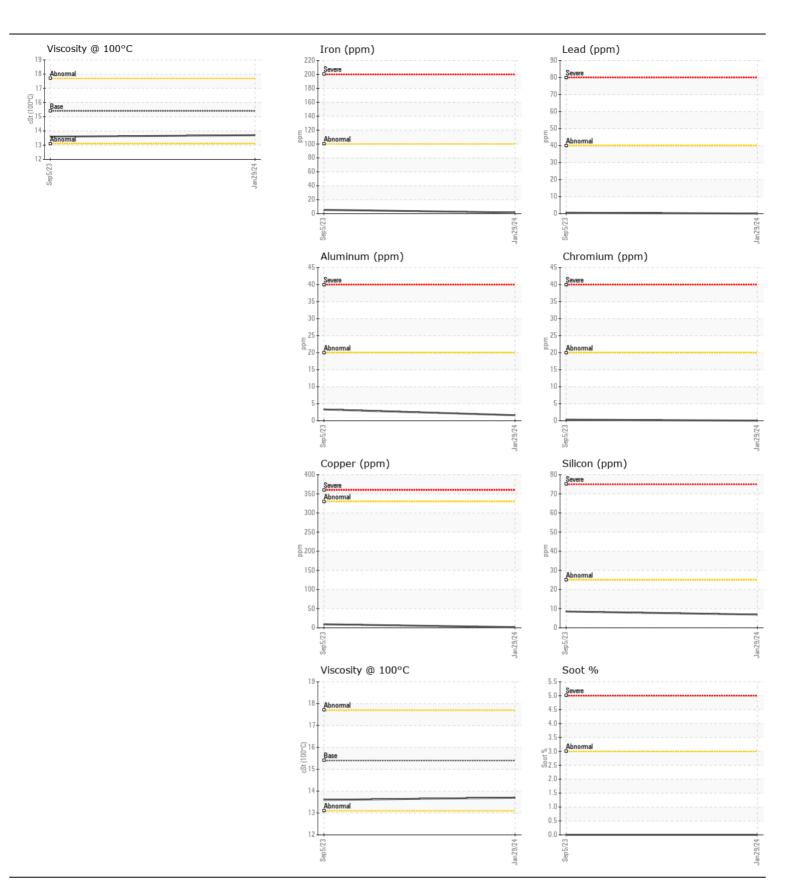
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

38 IANNUZZI

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0897585	WC0849130	
	Sample Date		Client Info		29 Jan 2024	05 Sep 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>100	2	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	0	<1	
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	
	Titanium	ppm	ASTM D5185(m)		6	52	
	Silver	ppm	ASTM D5185(m)	>3	0	<1	
	Aluminum	ppm	ASTM D5185(m)	>20	2	3	
	Lead	ppm	ASTM D5185(m)	>40	0	<1	
	Copper	ppm	ASTM D5185(m)	>330	2	9	
	Tin	ppm	ASTM D5185(m)	>15	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	<1	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1	4	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	4.7	6.6	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	18.5	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		1	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	1	17	120	
	Barium	ppm	ASTM D5185(m)	1	<1	3	
	Molybdenum	ppm	ASTM D5185(m)	1	51	12	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)	10	875	384	
	Calcium	ppm	ASTM D5185(m)	3032	1119	1535	
	Phosphorus	ppm	ASTM D5185(m)	1054	1014	884	
	Zinc	ppm	ASTM D5185(m)	1332	1126	1026	
	Sulfur	ppm	ASTM D5185(m)	3985	2924	2855	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	14.2	
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.7	13.6	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02619234 Unique Number : 5736344

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : WC0897585 **Tested**

Diagnosed Test Package : MOB 1

: 01 Mar 2024 : 01 Mar 2024 - Wes Davis

: 01 Mar 2024

NORTHERN GENERATOR CO. LTD. 80 ASHBRIDGE CIRCLE,, UNIT #1 & 2 WOODBRIDGE, ON

CA L4L 3R5 Contact: Selome Afework selome@northerngenerator.com

> T: (905)264-9744 F: (905)264-9714

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.