WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id

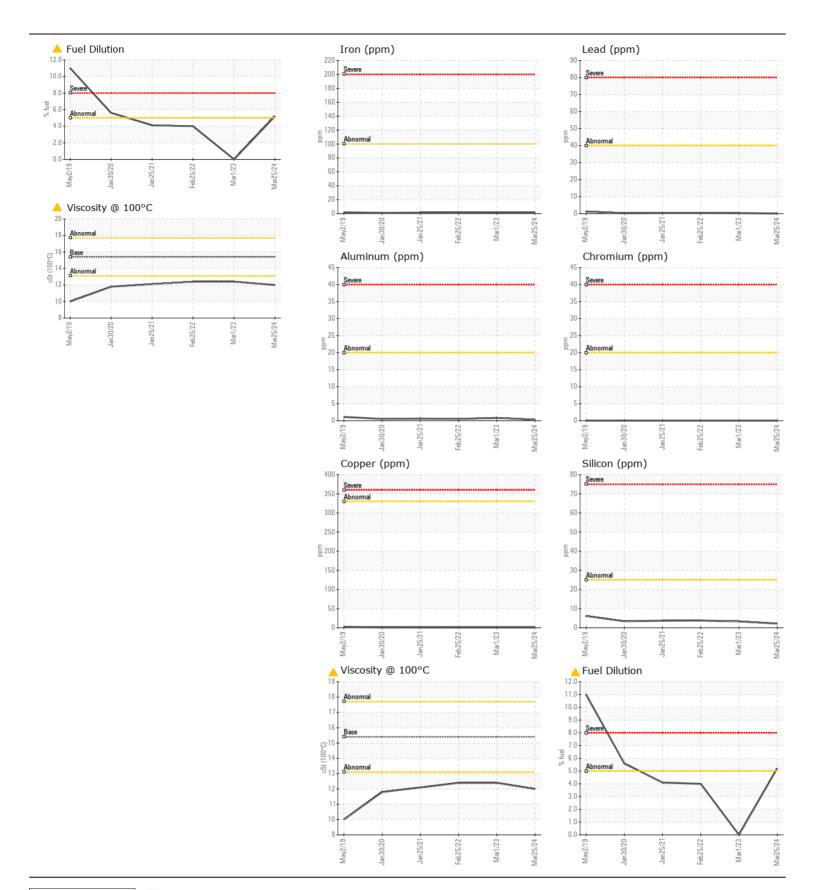
551 MAPLE

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0910623	WC0783856	WC06478
	Sample Date		Client Info		25 Mar 2024	01 Mar 2023	25 Feb 20
	Machine Age	hrs	Client Info		0	0	85
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	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				ABNORMAL	NORMAL	MARGINA
WEAR	Iron	ppm	ASTM D5185(m)	>100	2	2	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0	0	0
	Nickel	ppm	ASTM D5185(m)		0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	3	4
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
	Fuel	%	ASTM D7593*	>5	▲ 5.2	<1.0	<u>4</u>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	4.6	5.0	4.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.2	21.5	20.4
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		1	1	1
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	1	<1	<1	1
	Barium	ppm	ASTM D5185(m)	1	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	1	57	58	58
	Manganese	ppm	ASTM D5185(m)		0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	10	958	949	986
	Calcium	ppm	ASTM D5185(m)	3032	1005	1053	984
	Phosphorus	ppm	ASTM D5185(m)	1054	988	1075	1060
	Zinc	ppm	ASTM D5185(m)	1332	1135	1156	1196
	Sulfur	ppm	ASTM D5185(m)	3985	2692	2793	2789
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.7	13.5
						1	

12.4

12.0





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02625614

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0910623

Received **Tested** Unique Number : 5750733 Diagnosed

: 01 Apr 2024 : 02 Apr 2024

: 02 Apr 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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. Validity of results and interpretation are based on the sample and information as supplied.