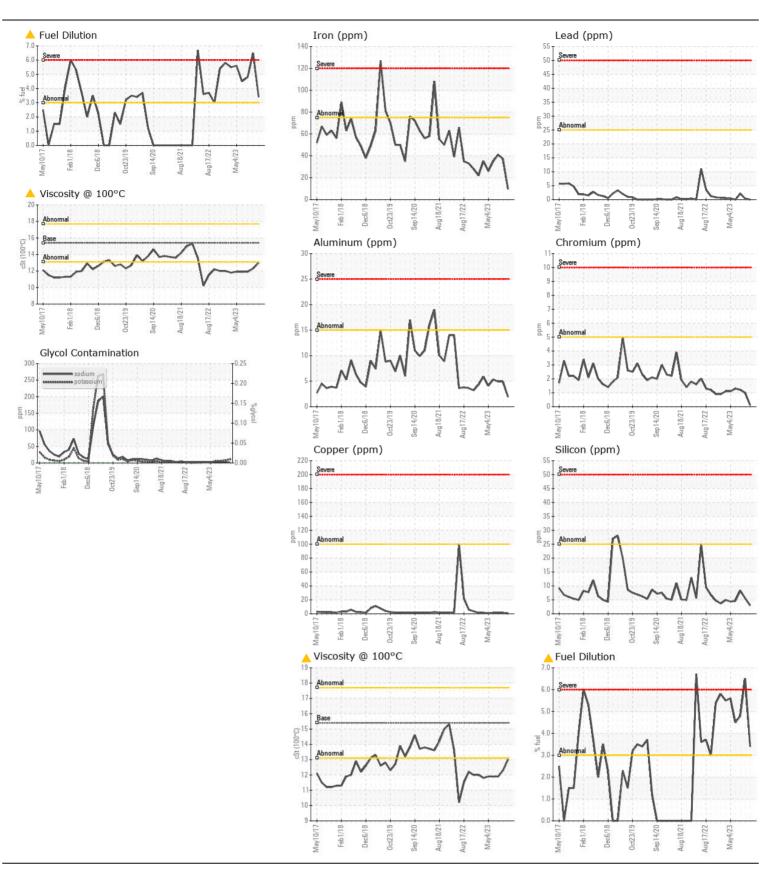
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id

2008 NOVA 156

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0889105	WC0866486	WC0816352
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		29 Dec 2023	20 Dec 2023	06 Oct 202
	Machine Age	kms	Client Info		0	0	0
	Oil Age	kms	Client Info		1408	9413	11051
	Filter Age	kms	Client Info		1408	9413	11051
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	SEVERE	ABNORMAI
VEAR	Iron	ppm	ASTM D5185(m)	>75	10	37	41
NII a company and a company an	Chromium	ppm	ASTM D5185(m)	>5	<1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>15	2	5	5
	Lead	ppm	ASTM D5185(m)	>25	0	<1	2
	Copper	ppm	ASTM D5185(m)	>100	<1	1	2
	Tin	ppm	ASTM D5185(m)	>4	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	3	6	8
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	11	8	6
	Fuel	%	ASTM D7593*	>3.0	4 3.4	6.5	4.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		0.0	NEG	NEG
	Soot %	%	ASTM D7844*	>6	0.1	0.7	0.7
	Nitration	Abs/cm	ASTM D7624*	>20	6.8	10.9	12.0
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	26.2	32.7
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		NODMI
	Odor Emulsified Water	scalar	Visual*	NORML >0.2	NORML NEG	NORML NEG	NORMI NEG
LUID CONDITION	Sodium	ppm	ASTM D5185(m)	>192	2	3	3
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)		137	72	55
	Barium	ppm	ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		1	<1	2
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)	2790	20	16 2099	34
	Calcium Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	3780 1370	2083 935	822	2070 792
	Zinc	ppm	ASTM D5185(III) ASTM D5185(m)	1500	1074	975	981
	Sulfur	ppm	ASTM D5185(III) ASTM D5185(m)	3800	3058	2879	2667
	Oxidation	Abs/.1mm	ASTM D3103(III) ASTM D7414*		17.6	25.7	37.6
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CALA ISO 17025:2017 Accredited Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0889105

: 02606752 : 5707838

Recieved : 05 Jan 2024 Diagnosed : 08 Jan 2024 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel, Visual)

AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD THUNDER BAY, ON **CA P7B 2Z8** Contact: Sean Malcolm sean.malcolm@thunderbay.ca

T: (807)684-2716 F: (807)344-0237

CITY OF THUNDER BAY

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.