**WEAR CONTAMINATION FLUID CONDITION** 

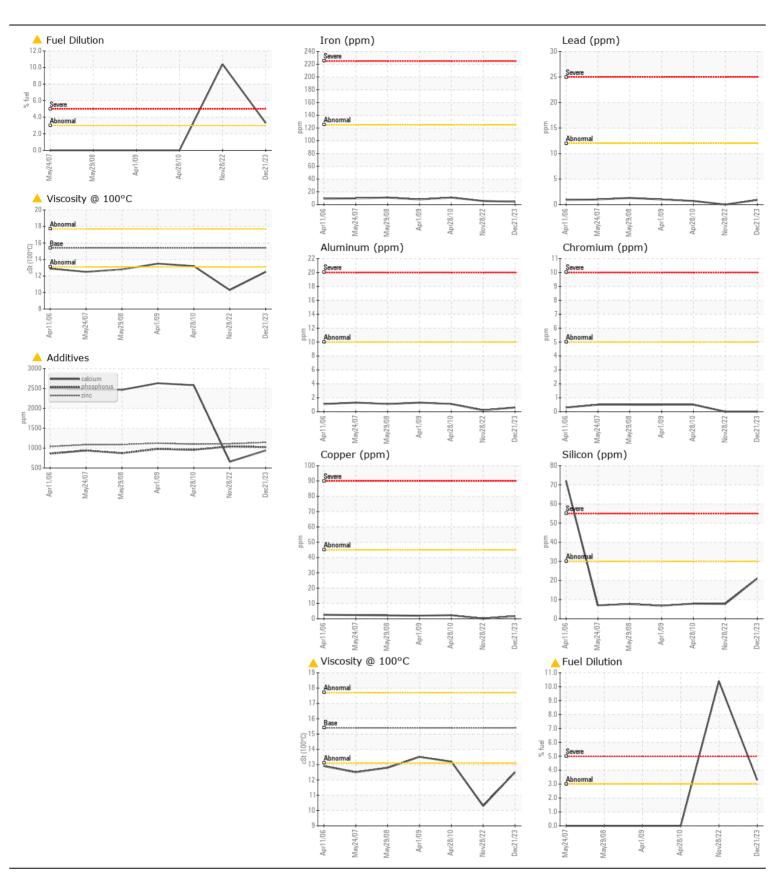
NORMAL **ABNORMAL ABNORMAL** 

[82883]

## 205 CUMMER AVE TORONTO CITY OF TORONTO 12VF012171

Component
Rear Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PN0005727	PN0004331	PN80889
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		21 Dec 2023	28 Nov 2022	28 Apr 201
	Machine Age	hrs	Client Info		830	810	413
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>125	4	6	11
MEAIT	Chromium	ppm	ASTM D5185(m)		0	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		0	0	0
	Titanium	ppm	ASTM D5185(m)		0	<1	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	1
	Lead	ppm	ASTM D5185(m)	>12	<1	0	<1
	Copper	ppm	ASTM D5185(m)	>45	2	<1	2
	Tin	ppm	ASTM D5185(m)	>20	12	<1	4
	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)	>30	21	8	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	0	0	0
	Fuel	%	ASTM D7593*	>3.0	<b>4</b> 3.3	10.4	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>0.8	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	3.6	4.4	5.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	12.9	14.2	18.2
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance Odor	scalar scalar	Visual* Visual*	NORML NORML	NORML NORML	NORML	
	Emulsified Water			>0.2	NEG	NEG	NEG
			· · · · · · · · · · · · · · · · · · ·	<i>&gt;</i> 0. <i>L</i>			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>192	2	<1	0
Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. 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)		2	2	<1
	Barium	ppm	ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		<1	1	<1
	Manganese	ppm	ASTM D5185(m)		0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	0700	904	997	8
	Calcium	ppm	ASTM D5185(m)		▲ 941 1005	▲ 658 1040	2581
	Phosphorus	ppm	ASTM D5185(m)		1025	1040	956
	Zinc Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)	1500	1144 3452	1109 5607	1096 4690
	Juliul	ppm	אטוואו שטופט(ווו)				
	Oxidation	Abs/.1mm	ASTM D7414*	<b>\25</b>	6.8	7.1	10.8





CALA ISO 17025:2017 Accredited Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PN0005727

: 02606531 : 5707617

Recieved Diagnosed

: 05 Jan 2024 Diagnostician : Wes Davis Test Package : MOB 1 ( Additional Tests: PercentFuel, Visual )

: 04 Jan 2024

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.

POWER STATION INC. 1050 JAYSON COURT

MISSISSAUGA, ON CA L4W 2V5 Contact: Ryan Udall rudall@pwrstn.com

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