WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ABNORMAL

200 BAY ST TORONTO COLLIERS UNIT #1

Component Left Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		PN0005797		
	Sample Date		Client Info		22 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185(m)	>200	6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	0		
	Nickel	ppm	ASTM D5185(m)	>2	<1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)	>2	<1		
	Aluminum	ppm	ASTM D5185(m)	>30	2		
	Lead	ppm	ASTM D5185(m)	>30	6		
	Copper	ppm	ASTM D5185(m)	>30	5		
	Tin	ppm	ASTM D5185(m)	>15	1		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>30	3		
	Potassium	ppm	ASTM D5185(m)		3		
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D7593*	>3.0	1.3		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0		
	Nitration	Abs/cm	ASTM D7624*	>20	4.1		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	13.6		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185(m)	>192	12		
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		3		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		93		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		155		
	Calcium	ppm	ASTM D5185(m)		2254		
	Phosphorus	ppm	ASTM D5185(m)		877		
	Zinc	ppm	ASTM D5185(m)		950		
	Sulfur	ppm	ASTM D5185(m)		4064		
	Oxidation	Abs/.1mm	ASTM D7414*		6.1		
	Visc @ 40°C	cSt	ASTM D7279(m)	116	<u> </u>		

Viscosity Index (VI) Scale ASTM D2270* 140

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CALA ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. Received : 29 Feb 2024 : PN0005797

Lab Number : 02618926 **Tested** :01 Mar 2024 : 01 Mar 2024 - Kevin Marson Unique Number : 5736036 Diagnosed

Test Package: MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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: Brett Kinkley Bkinkley@pwrstn.com

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