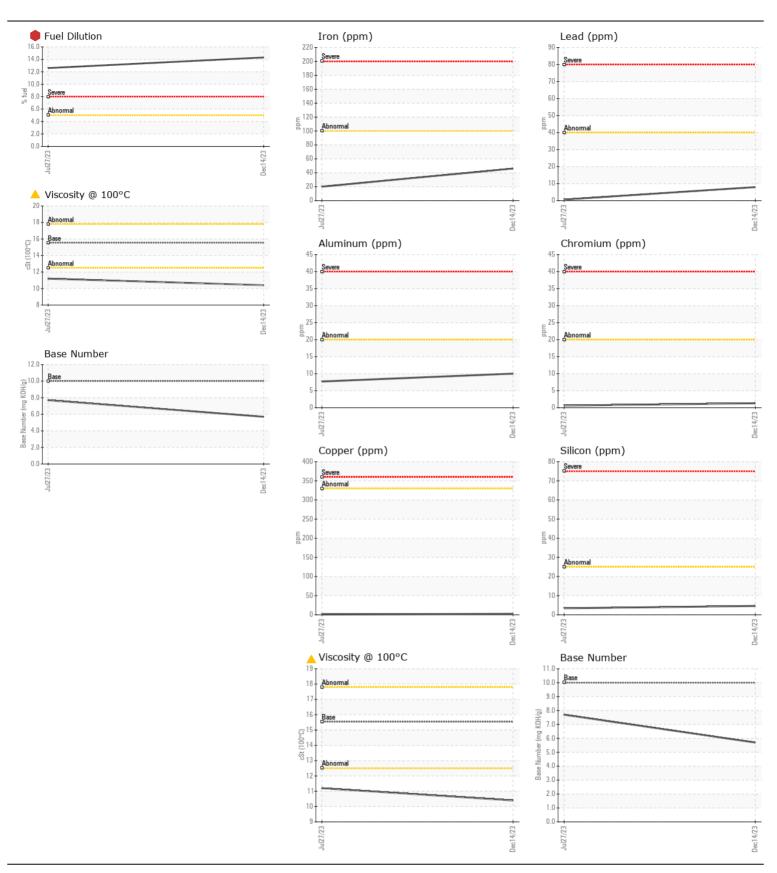
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL SEVERE ABNORMAL** 

## **INTERNATIONAL 557**

Component Diesel Engine							
PETRO CANADA DURON-E XL 15W40 ( GA	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info	21111071011	WC0878893	WC0792788	
	Sample Date		Client Info		14 Dec 2023	27 Jul 2023	
	Machine Age	mls	Client Info		114606	112280	
	Oil Age	mls	Client Info		5000	0	
	Filter Age	mls	Client Info		5000	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>100	46	20	
	Chromium	ppm	ASTM D5185m	>20	1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	10	8	
	Lead	ppm	ASTM D5185m	>40	8	<1	
	Copper	ppm	ASTM D5185m	>330	2	1	
	Tin	ppm	ASTM D5185m	>15	2	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	
	Potassium	ppm	ASTM D5185m		2	0	
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524	>5	<b>14.3</b>	12.6	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.1	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	13.1	10.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	21.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
	Boron	ppm	ASTM D5185m	1	7	13	
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	60	51	56	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	1010	774	855	
	Calcium	ppm	ASTM D5185m	1070	841	988	
	Phosphorus	ppm	ASTM D5185m	1150	849	914	
	Zinc	ppm	ASTM D5185m	-	1011	1121	
	Sulfur	ppm	ASTM D5185m	2060	2387	3165	
	Oxidation	Abs/.1mm	*ASTM D7414		27.2	20.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.0	5.7	7.7	
	Visc @ 100°C	cSt	ASTM D445	15 54	<b>10.4</b>	<u>11.2</u>	







Certificate L2367

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

: WC0878893 : 06063419 : 10834801

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024

Diagnosed : 19 Jan 2024 Diagnostician : Don Baldridge

**Test Package**: MOB 1 (Additional Tests: PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**WAYNE CO SCHOOL BUS GARAGE** 

1603 SALEM CHURCH RD GOLDSBORO, NC

US 27530 Contact: BRANDON BRIGGS

brandonbriggs@wcps.org

T:

F: