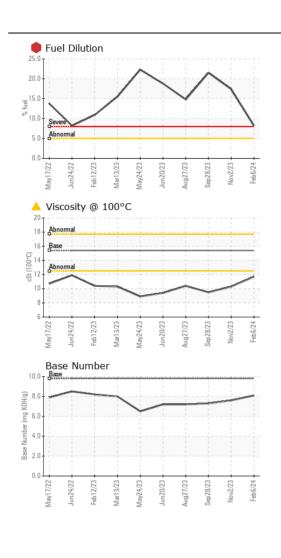
WEAR CONTAMINATION **FLUID CONDITION**

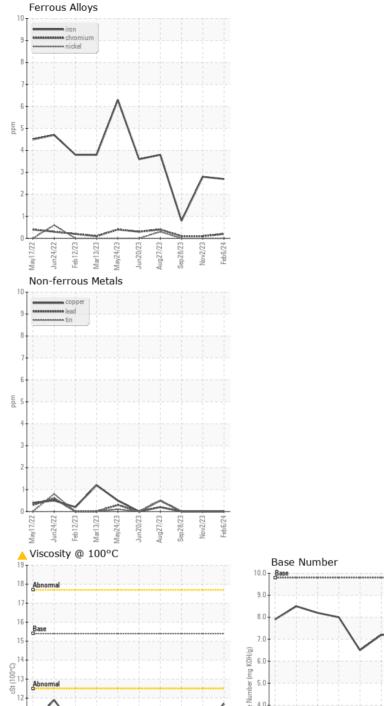
NORMAL SEVERE ABNORMAL

Machine Id **729**

Component

Diesel Engine							
PETRO CANADA DURON SHP 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0817197	WC0773726	WC0773708
	Sample Date	laua	Client Info		06 Feb 2024	02 Nov 2023	28 Sep 2023
	Machine Age	hrs	Client Info		25618	0	25211
	Oil Age	hrs	Client Info		0	0	25211
	Filter Age	hrs	Client Info		-	0 Changed	25211 Changed
	Oil Changed Filter Changed		Client Info		Changed Changed	Changed	Changed
	Sample Status		Ciletit IIIIO		SEVERE	Changed SEVERE	Changed SEVERE
					JEVENE	OLVLILL	
WEAR	Iron	ppm	ASTM D5185m	>100	3	3	<1
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	0	0	0
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTM DE405	05	•		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	3	3
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		0	17.4	0
	Fuel	%	ASTM D3524	>5	● 8.2	17.4 NEG	21.5 NEG
	Water Glycol		WC Method	>0.2	NEG NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.2	0.2	0.2
	Nitration	Abs/cm		>20	5.7	6.5	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		18.9	21.0	21.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION			AOTM DEGO				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	0	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		5	1	0
oil. 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 ASTM D5185m		0 56	0 50	0 44
	Molybdenum	ppm	ASTM D5185m		56 -1	0	<1
	Manganese Magnesium	ppm	ASTM D5185m		<1 851	784	808
	Calcium	ppm	ASTM D5185m		932	784 883	848
	Phosphorus	ppm	ASTM D5185m		952 858	876	838
	Zinc	ppm	ASTM D5185m		1115	1052	1036
	Sulfur	ppm	ASTM D5185m		2881	2840	2564
	Oxidation	Abs/.1mm	*ASTM D3163111		16.0	20.5	21.6
	Base Number (BN)				8.1	7.6	7.3
	Visc @ 100°C	cSt	ASTM D445		11.7	10.3	9.5
	1.00 @ 100 0	001	. 10 1111 0 170		<u></u>	- 10.0	- 0.0







Laboratory Sample No.

: WC0817197 Lab Number : 06089259 Unique Number : 10876704

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package: FLEET (Additional Tests: PercentFuel)

: 16 Feb 2024 : 16 Feb 2024 - Wes Davis

May17/22

Nov2/23

: 14 Feb 2024

AREA TRANSPORTATION AUTHORITY 44 TRANSPORTATION CENTER

Mar13/23

JOHNSONBURG, PA US 15845

Contact: J SCHLODER jschloder@rideata.com T:

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)

F: