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

**NORMAL ABNORMAL NORMAL** 

Machine Id

245

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (45 GAL)  RECOMMENDATION  We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	T	11014	Mada!	Line is /Ale	Q	I Bakan of	I link O
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0885203	WC0831682	WC080559
	Sample Date	Luca	Client Info		12 Dec 2023	22 Aug 2023	13 Mar 202
	Machine Age	kms	Client Info		935554	923063	937674
	Oil Age	kms	Client Info		12491	39984	64486
	Filter Age	kms	Client Info		12491	39984	64486
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				ABNORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185(m)	>165	15	8	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	0	1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
	Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	3	<1	2
	Lead	ppm	ASTM D5185(m)	>150	2	<1	2
	Copper	ppm	ASTM D5185(m)	>90	2	<1	1
	Tin	ppm	ASTM D5185(m)	>5	<1	<1	1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	<b>\35</b>	6	4	6
There is a moderate concentration of water present in the oil. Free water present. Test for glycol is negative.	Potassium	ppm	ASTM D5185(m)		2	0	8
	Fuel	PP	WC Method		- <1.0	<1.0	<1.0
	Water	%	ASTM D6304*		<b>△</b> 0.465		
	ppm Water	ppm	ASTM D6304*		<b>4659</b>		
	Glycol	%	ASTM D7922*		0.0	NEG	NEG
	Soot %	%	ASTM D7844*	>7.5	0.2	0.2	0.1
	Nitration	Abs/cm	ASTM D7624*	>20	8.7	7.5	8.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	18.6	21.1
	Emulsified Water	scalar	Visual*	>0.2	<u>^</u> .5%	NEG	NEG
ELUID CONDITION	Codium	nnm	ACTM DE10E/m)		5	3	Λ
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Sodium	ppm	ASTM D5185(m)	2	10	10	109
	Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)		0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		53	61	15
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m)		889	932	190
	Calcium	ppm	ASTM D5185(m)		1128	1187	2094
	Phosphorus	ppm	ASTM D5185(m)		987	1040	1056
	i noopnorus	ppiii					
	7inc	nnm	ASTM D5185(m)	1180	1164	1241	1182
	Zinc Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)		1164 2791	1241 2697	1182 2988

Base Number (BN) mg KOH/g ASTM D2896\*

ASTM D7279(m) 12.00

Visc @ 100°C cSt

Report Id: TRA180MON [WCAMIS] 02606180 (Generated: 01/05/2024 13:47:22) Rev: 1

11.2 Submitted By: Stephane Godbout

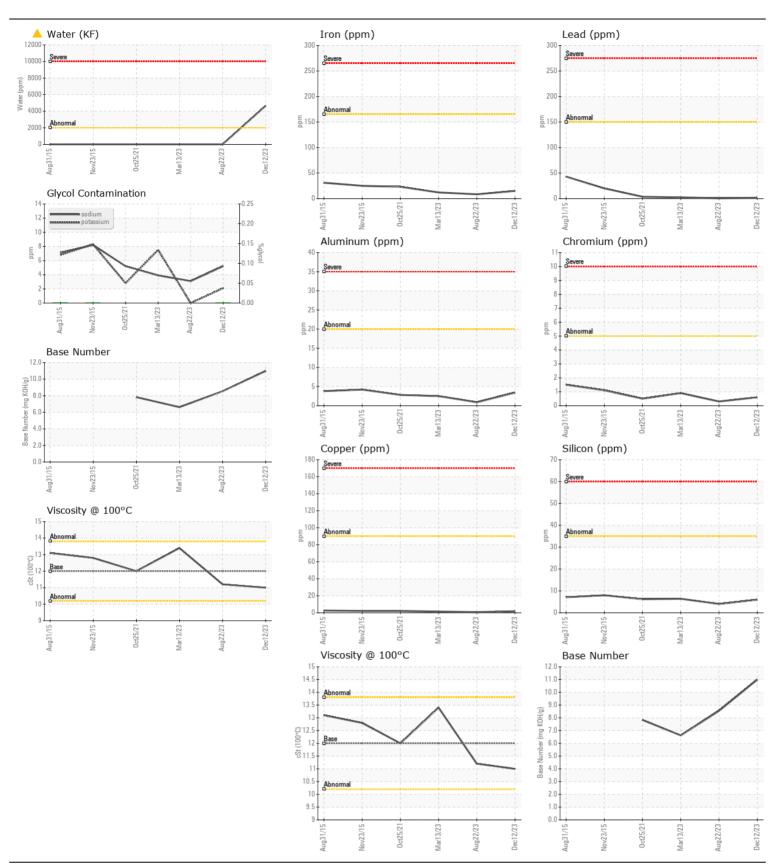
8.54

10.99

11.0

6.62

13.4





CALA ISO 17025:2017 Accredited Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0885203

: 5707266

: 02606180

Recieved Diagnosed

: 03 Jan 2024

: 05 Jan 2024

Diagnostician : Kevin Marson

Test Package : MOB 2 ( Additional Tests: Glycol, KF ) 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.

Moncton - Transport Laberge 180 Edinburg Drive, Suite 1A

Moncton, NB **CA E1E 2K7** 

Contact: Service Manager

T:

F: