WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ATTENTION

Machine Id

526

Component Diesel Engine							
PETRO CANADA DURON HP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info	2	WC0851026	-	WC072737
	Sample Date		Client Info		25 Apr 2024	11 Mar 2024	21 Feb 2023
	Machine Age	mls	Client Info		5000	0	0
	Oil Age	mls	Client Info		5000	0	0
	Filter Age	mls	Client Info		5000	0	0
	Oil Changed		Client Info		Not Changd		Not Change
	Filter Changed		Client Info		Not Change		Not Chang
	Sample Status				SEVERE	SEVERE	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	25	△ 134	36
WLAIT	Chromium	ppm	ASTM D5185m		1	5	2
Metal levels are typical for a new component breaking in.	Nickel		ASTM D5185m		- <1	<1	0
	Titanium	ppm	ASTM D5185m	>4	<1	0	0
	Silver	ppm		. 0			
		ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		5	<u>^</u> 29	15
	Lead	ppm		>40	0	0	0
	Copper	ppm	ASTM D5185m		3	5	2
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	16
Test for alread is positive. There is a high concentration of alread	Potassium	ppm	ASTM D5185m	>20	<u> </u>	<u></u> 1285	190
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.12	▲ 0.20	0.0
	Soot %	%	*ASTM D7844	>3	0.3	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.8	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	21.3	21.6
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		99	<u> </u>	21
	Boron	ppm	ASTM D5185m		4	11	156
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.	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		66	79	51
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		761	874	348
	Calcium	ppm	ASTM D5185m		1222	1176	1710
	Phosphorus	ppm	ASTM D5185m		1036	942	872
	Zinc	ppm	ASTM D5185m		1184	1195	1092
	Sulfur	ppm	ASTM D5185m		3462	3618	3476
	Oxidation		*ASTM D7414	>25	13.6	17.0	18.0
	Base Number (BN)		ASTM D2896		10.5	9.3	7.3
	Vice @ 100°C	IIIg KUT/g	ASTIVI DZ030	15.6	14.0	10.6	10.0

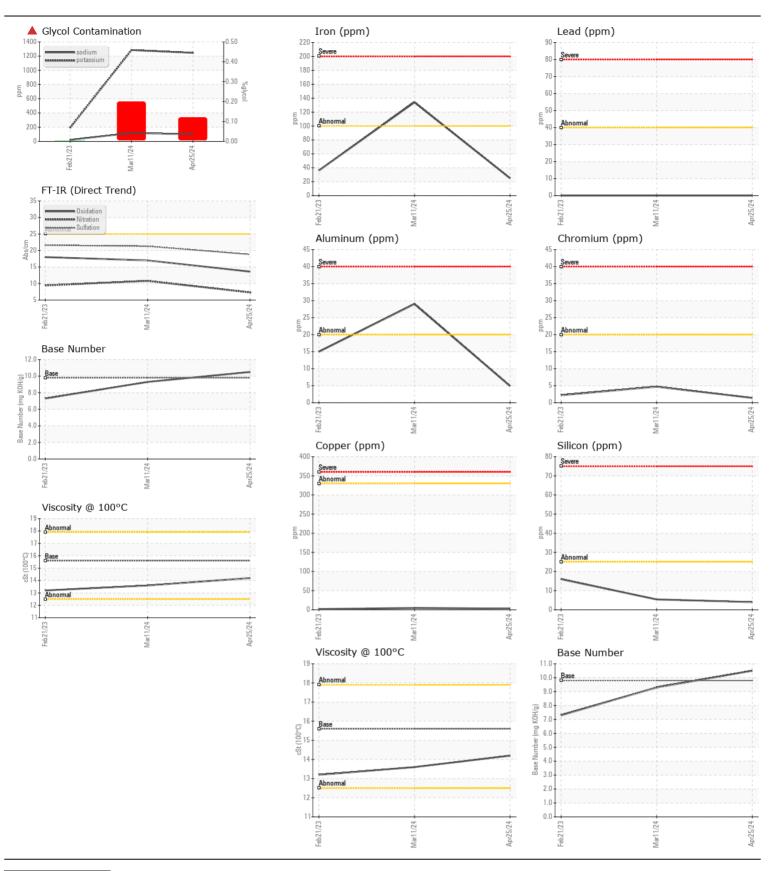
Visc @ 100°C cSt

13.6

14.2

ASTM D445 15.6

13.2





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06178558

: WC0851026

Received Tested Unique Number : 11029884 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 14 May 2024 : 16 May 2024 : 16 May 2024 - Wes Davis

1603 SALEM CHURCH RD GOLDSBORO, NC US 27530 Contact: BRANDON BRIGGS

brandonbriggs@wcps.org

WAYNE CO SCHOOL BUS GARAGE

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)

T:

F: