

Current

History1

History2

## Machine Id **226015** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

	We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	San			
		Mac			
		Oil A			

Test

UOM

Method

Limit/Abn

onent if this has	Sample Number		Client Info		GFL0110198	GFL0110178	GFL0060487
ample to monitor	Sample Date		Client Info		24 May 2024	08 Jan 2024	16 Aug 2023
	Machine Age	mls	Client Info		166440	163365	158957
	Oil Age	mls	Client Info		3075	0	0
	Filter Age	mls	Client Info		3075	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
	Iron		ASTM D5185m	>100	43	39	26
	Chromium	ppm	ASTM D5185m		43 1	1	<1
	Nickel	ppm	ASTM D5185m		۱ <1	1	0
	Titanium	ppm	ASTM D5185m	>4	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0 <1	0	0
	Aluminum	ppm ppm	ASTM D5185m		4	4	3
	Lead		ASTM D5185m	>40	4	5	1
	Copper	ppm ppm	ASTM D5185m		4	5	2
	Tin	ppm	ASTM D5185m	>15	+ <1	2	<1
	Vanadium	ppm	ASTM D5185m	210	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Jouran	Vibuui	····		NONE	NONE
	Silicon	ppm	ASTM D5185m	>25	11	16	5
<b>—</b>	Potassium	ppm	ASTM D5185m	>20	<1	3	4
. Tests confirm the	Fuel	%	ASTM D3524	>5	<b>6</b> .4	<b>1</b> 7.2	<b>9</b> .8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.1	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.9	19.5
	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
	Sodium	ppm	ASTM D5185m		1	<1	2
	Boron	ppm	ASTM D5185m	0	7	20	132
y remaining in the	Barium	ppm		0	0	2	0
nce of	Molybdenum	ppm	ASTM D5185m		62	72	17
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	920	863	208
	Calcium	ppm	ASTM D5185m	1070	1235	1289	1841
	Phosphorus	ppm	ASTM D5185m		1091	11203	874
	Zinc	ppm	ASTM D5185m	1270	1350	1282	1068
	Sulfur	ppm	ASTM D5185m		3719	3654	3508
		P P P					

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 9.8

Oxidation

Visc @ 100°C cSt

## CONTAMINATION

All component wear rates are normal.

RECOMMENDATION

WEAR

There is a moderate amount of fuel present in the oil. Tests confirm presence of fuel in the oil.

## **FLUID CONDITION**

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.

15.8

6.8

**11.0** 

16.6

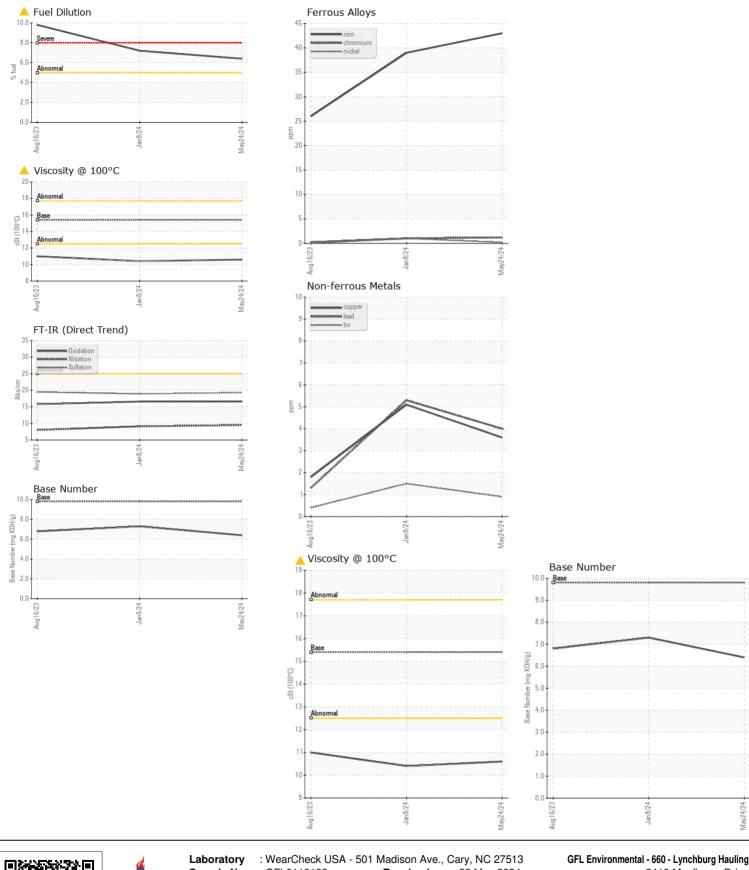
7.3

10.4

16.6

6.4

10.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 660 - Lynchburg Hauling Sample No. Received 2410 Mayflower Drive : GFL0110198 : 28 May 2024 Lab Number : 06193335 Tested : 30 May 2024 Lynchburg, VA Unique Number : 11050087 Diagnosed : 30 May 2024 - Wes Davis US 24501 Test Package : FLEET (Additional Tests: PercentFuel) Contact: Delbert Beasley Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dbeasley@countyrecycling.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (434)665-5998 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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