

(34706UA)

712015 Compone

W All

FL

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 GAL)

RECOMMENDATION

We advise that you should far the equipped of the evaluate leads. Observe for		Sample Number		Client Info		GFL0119093	GFL0112138	GFL0060127
low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Check for	Sample Date		Client Info		22 May 2024	08 Feb 2024	22 Dec 2022
	ig has been	Machine Age	hrs	Client Info		724	724	724
		Oil Age	hrs	Client Info		724	724	2350
		Filter Age	hrs	Client Info		724	724	771
		Oil Changed		Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	Changed	Changed
		Sample Status				SEVERE	SEVERE	NORMAL
WEAR		Iron	ppm	ASTM D5185m	>90	52	28	31
		Chromium	ppm	ASTM D5185m	>20	2	<1	<1
All component wear rates are normal.		Nickel	ppm	ASTM D5185m	>2	<1	0	0
		Titanium	ppm	ASTM D5185m	>2	<1	0	0
		Silver	ppm	ASTM D5185m	>2	<1	0	0
		Aluminum	ppm	ASTM D5185m	>20	24	15	42
		Lead	ppm	ASTM D5185m	>40	<1	0	0
		Copper	ppm	ASTM D5185m	>330	6	<1	1
		Tin	ppm	ASTM D5185m	>15	<1	0	<1
		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	maa	ASTM D5185m	>25	20	7	4
Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.		Potassium	mag	ASTM D5185m	>20	A 1581	A 589	88
	oncentration	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol	%	*ASTM D2982		0.20	▲ 0.12	NEG
		Soot %	%	*ASTM D7844	>6	0.6	0.4	0.9
		Nitration	Abs/cm	*ASTM D7624	>20	22.2	13.6	10.9
		Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	20.5	22.3
		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		A 2749	4 989	2
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	0	65	26	2	
	Barium	ppm	ASTM D5185m	0	0	0	0	
		Molybdenum	ppm	ASTM D5185m	60	208	112	63
		Manganese	ppm	ASTM D5185m	0	2	<1	<1
		Magnesium	ppm	ASTM D5185m	1010	801	864	918
		Calcium	ppm	ASTM D5185m	1070	1050	1078	1161
		Phosphorus	ppm	ASTM D5185m	1150	941	1015	1055

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

Test

UOM

Method

1201

2749

15.9

12.5

14.1

1114

3084

18.7

26.0

48.3

ASTM D5185m 1270

ASTM D445 15.4

ppm ASTM D5185m 2060

Abs/.1mm *ASTM D7414 >25

ppm

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

1253

18.6

8.7

13.6

3952

WEAR

Current

CONTAMINATION

FLUID CONDITION

Limit/Abn

NORMAL

SEVERE

ABNORMAL

History1

History2



Submitted By: MARIO OLIVAS Page 2 of 2