

Machine Id

#### WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION **ABNORMAL**



#### 727009 oner **Diesel Engine**

## PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as PETRO CANADA DURON SHP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. .....

**WEAR** 

All component wear rates are normal.

### CONTAMINATION

Test for glycol is positive. Light fuel dilution occurring. There is a moderate concentration of glycol present in the oil. No other contaminants were detected in the oil.

# FLUID CONDITION

This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113205	GFL0113246	GFL0097314
Sample Date		Client Info		18 Jun 2024	18 Apr 2024	11 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		18416	40759	17390
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>120	7	9	58
Chromium	ppm	ASTM D5185(m)	>20	0	0	2
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	1	24
Lead	ppm	ASTM D5185(m)	>40	0	0	5
Copper	ppm	ASTM D5185(m)	>330	<1	<1	20
Tin	ppm	ASTM D5185(m)	>15	<1	0	3
Vanadium	ppm	ASTM D5185(m)	NONE	0	0	0
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	3	<1	<b>4</b> 3
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	0	70
Fuel	%	ASTM D7593*	>3.0	2.4	<1.0	1.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.08</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.2	1.7	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.2	7.1	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	20.9	22.6
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium				0	4	6
Sodium	ppm	ASTM D5185(m)	0	8	1	6
Boron Barium	ppm	ASTM D5185(m)	0	87	8	33 5
Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)	0 60	0 6	53	13
-	ppm	ASTM D5185(m)			0	
Manganese Magnesium	ppm	ASTM D5185(m)	0 1010	0 69	845	6 731
Calcium	ppm	ASTM D5185(m)	1070	2000	1020	1298
Phosphorus	ppm	ASTM D5185(m)	1150	849	885	693
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	1270	1034	1037	761
Sulfur	ppm ppm	ASTM D5185(m)	2060	2613	2291	2411
Oxidation		ASTM D3103(III) ASTM D7414*	>25	18.8	13.6	19.1
Visc @ 100°C	Abs/.1mm cSt	ASTM D7414 ASTM D7279(m)	15.4	▲ 11.4	13.3	▲ 11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor CALA Sample No. : 20 Jun 2024 2700 Deziel Dr : GFL0113205 Received Lab Number : 02643181 Windsor, ON Tested : 21 Jun 2024 ISO 17025:2017 : 21 Jun 2024 - Wes Davis Accredited CA N8W 5H8 Unique Number : 5800720 Diagnosed Laboratory **Test Package** : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual) Contact: Dave Varga To discuss this sample report, contact Customer Service at 1-800-268-2131. dvarga@gflenv.com T: (519)944-8009 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. F:

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