

Machine Id

# WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ABNORMAL

#### 4524 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- LTR)

We advise that you check the fuel injection system. 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.

### WEAR

All component wear rates are normal.

RECOMMENDATION

## CONTAMINATION

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

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0101688	GFL0097598	GFL0101701
Sample Date		Client Info		04 Jan 2024	01 Nov 2023	23 Oct 2023
Machine Age	hrs	Client Info		0	31249	31672
Oil Age	hrs	Client Info		0	526	0
Filter Age	hrs	Client Info		0	526	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>120	2	9	5
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	4	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	3	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
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Silicon	ppm	ASTM D5185(m)	>25	2	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	4	5
Fuel	%	ASTM D7593*	>3.0	6.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.0	9.0	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.4	19.1	18.2
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
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	nom	AGTM D5185(m)		2	2	0
Boron	ppm	AGTM D5105(III)	0	10	7	2
Borium	ppm	AGTM D5105(III)	2	0	- 1	0
Molybdonum	ppm	AGTM D5105(III)	50	55	61	57
Mongonooo	ppm	AGTM D5105(III)	0	0	0	0
Magnosium	ppm	ASTM DE105(III)	950	0	024	022
Coloium	ppm		1050	004	1040	1047
Dhoonharius	ppm		1030 00E	930	070	000
Zino	ppm		1100	930	1170	1100
	ppm		2600	10//	2504	0714
Ovidation			2000	2000	16.0	2/14
	AUS/.IMM	AGTM D7070(c)	>20	13.0	10.2	10.0
	COL	MOTIVI D7279(III)	12.00	🦰 ອ.ວ 🖉	10.7	10.0







: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Laboratory CALA Sample No. Recieved : GFL0101688 : 05 Jan 2024 8409 -15th Street NW Lab Number : 02606690 Diagnosed : 08 Jan 2024 Edmonton, AB ISO 17025:2017 Diagnostician : Wes Davis Accredited : 5707776 CA T6P 0B8 Unique Number Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com T: (780)231-0521 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.