

Machine Id 8428 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (20 LTR)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

WEAR

All component wear rates are normal.

CONTAMINATION

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

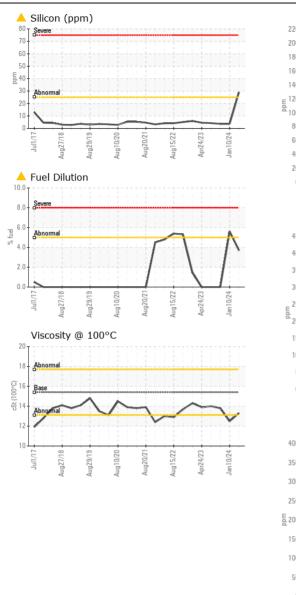
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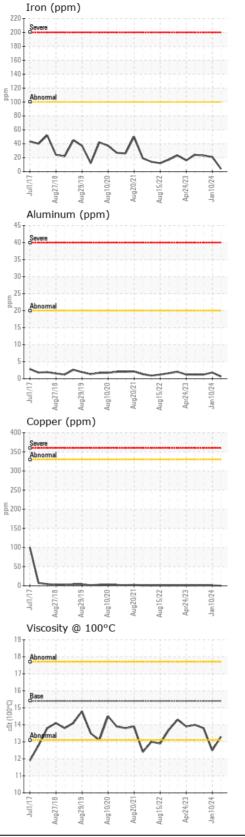
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0110717	GFL0097439	GFL0085673
e 0	Sample Date		Client Info		26 Mar 2024	10 Jan 2024	16 Oct 2023
	Machine Age	hrs	Client Info		3237	3237	3237
	Oil Age	hrs	Client Info		3237	3237	3237
	Filter Age	hrs	Client Info		3237	3237	3237
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
				100		01	00
	Iron	ppm	ASTM D5185(m)	>100	4	21	23
	Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
	Titanium	ppm	ASTM D5185(m)	0	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
	Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	4 29	4	4
	Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
	Fuel	%	ASTM D7593*	>5	3 .7	5 .6	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0	0.5	0.6
	Nitration	Abs/cm	ASTM D7624*	>20	7.2	11.7	11.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	23.4	23.3
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		<1	1	2
	Boron	ppm	ASTM D5185(m)	0	3	2	1
	Barium	ppm	ASTM D5185(m)	0	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)	60	55	55	58
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	906	866	932
	Calcium	ppm	ASTM D5185(m)	1070	971	965	1025
	Phosphorus	ppm	ASTM D5185(m)	1150	942	910	945
	Zinc	ppm	ASTM D5185(m)	1270	1109	1070	1161
	Sulfur	ppm	ASTM D5185(m)	2060	2437	2285	2324
	Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3	21.9	20.3
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	1 2.5	13.8

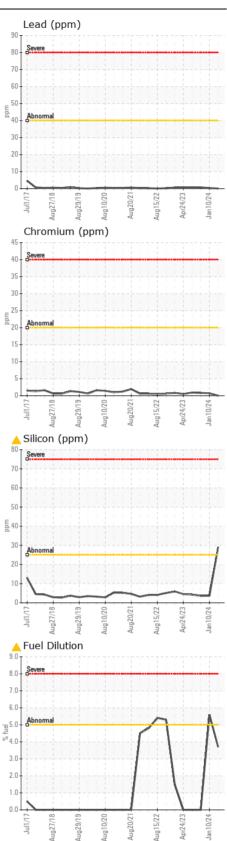
FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Submitted By: Rhys Marotte







GFL Environmental - 221 - Windsor Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0110717 Received : 28 Mar 2024 905 Tecumseh Road W Lab Number : 02625149 Tested Windsor, ON :01 Apr 2024 ISO 17025:2017 Unique Number : 5750268 Accredited : 01 Apr 2024 - Kevin Marson CA N8W 4J5 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Rhys Marotte To discuss this sample report, contact Customer Service at 1-800-268-2131. rmarotte@gflenv.com Т: 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.