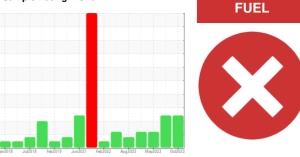


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 7825

Component Diesel Engine

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

DIAGNOSIS

Recommendation

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.

Contamination

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

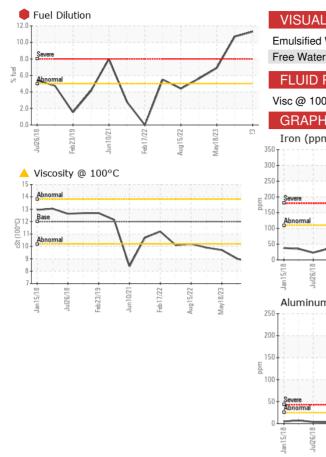
Fluid Condition

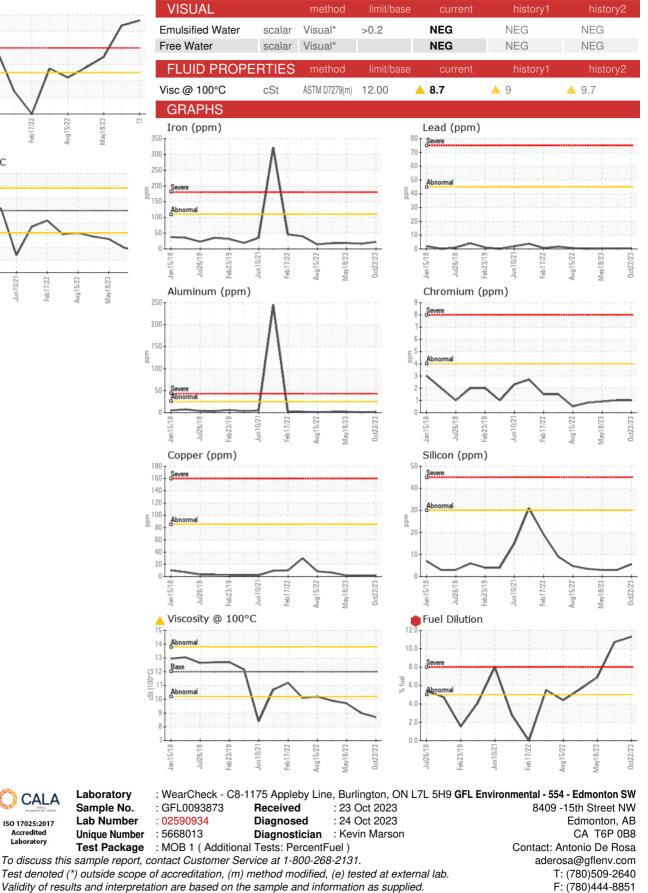
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0093873	GFL0085955	GFL0077950		
Sample Date		Client Info		22 Oct 2023	14 Jun 2023	18 May 2023		
Machine Age	hrs	Client Info		0	20629	20226		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	Changed	Changed		
Sample Status				SEVERE	SEVERE	ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>110	22	16	19		
Chromium	ppm	ASTM D5185(m)	>4	1	1	<1		
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1		
Titanium	ppm	ASTM D5185(m)		0	0	<1		
Silver	ppm	ASTM D5185(m)	>2	<1	0	0		
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	2		
Lead	ppm	ASTM D5185(m)	>45	<1	<1	<1		
Copper	ppm	ASTM D5185(m)	>85	1	1	2		
Tin	ppm	ASTM D5185(m)	>4	0	0	<1		
Antimony	ppm	ASTM D5185(m)		0	0	0		
Vanadium	ppm	ASTM D5185(m)		0	0	0		
Beryllium	ppm	ASTM D5185(m)		0	0	0		
Cadmium	ppm	ASTM D5185(m)		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	2	8	1	3		
Barium	ppm	ASTM D5185(m)	0	<1	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	53	51	54		
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1		
Magnesium	ppm	ASTM D5185(m)	950	777	838	854		
Calcium	ppm	ASTM D5185(m)	1050	900	910	979		
Phosphorus	ppm	ASTM D5185(m)	995	847	939	954		
Zinc	ppm	ASTM D5185(m)	1180	983	1036	1040		
Sulfur	ppm	ASTM D5185(m)	2600	2149	2258	2349		
Lithium	ppm	ASTM D5185(m)		<1	<1	<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>30	6	3	3		
Sodium	ppm	ASTM D5185(m)		5	4	5		
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0		
Fuel	%	ASTM D7593*	>5	e 11.3	10.7	6 .9		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	>3	0.6	0.5	0.6		
Nitration	Abs/cm	ASTM D7624*	>20	10.4	8.9	8.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	22.2	21.1		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.3	22.1	16.9		
0:19:10) Rev: 1					Submitted E	Submitted By: Brian Gagne		



OIL ANALYSIS REPORT





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