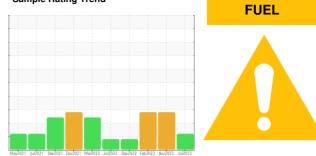


OIL ANALYSIS REPORT

SAMPLE INFORMATION method



limit/base



history1

history2

current

Machine Id 401110

Component Diesel Engine

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

DIAGNOSIS

Recommendation

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 moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

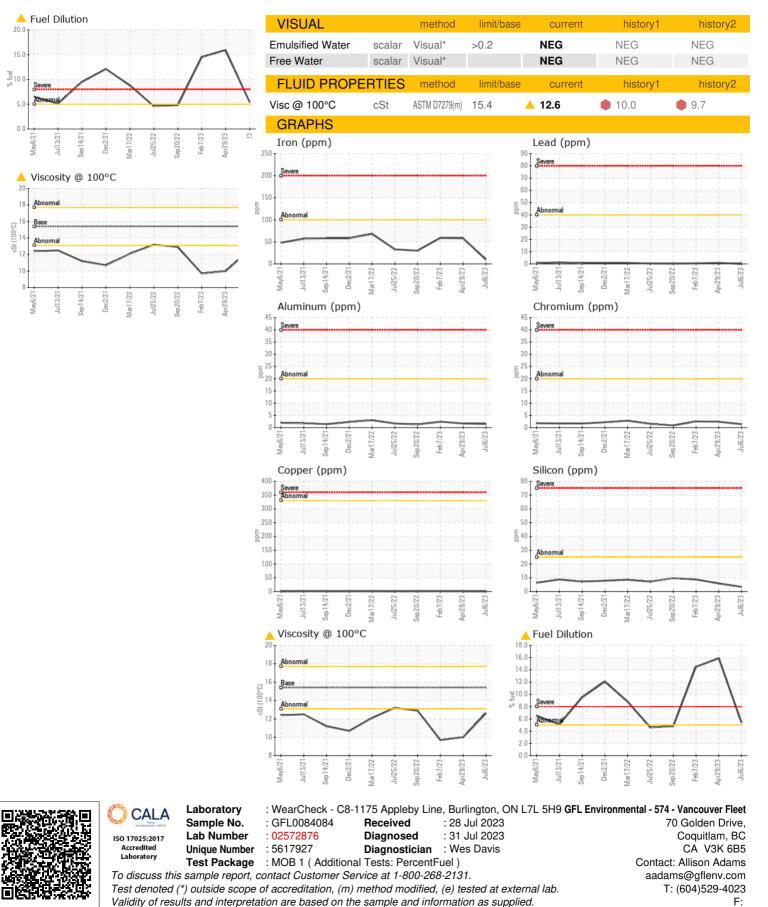
Fluid Condition

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

SAIVIFLE INFOR		methou	IIIIII/Dase	Current	Thistory I	TIISTOL ÅZ	
Sample Number		Client Info		GFL0084084	GFL0063673	GFL0073170	
Sample Date		Client Info		06 Jul 2023	29 Apr 2023	07 Feb 2023	
Machine Age	hrs	Client Info		29476	28866	28187	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				ABNORMAL	SEVERE	SEVERE	
CONTAMINAT		method	limit/base	current	history1	history2	
			mmubase				
Glycol		WC Method		NEG	NEG	0.0	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	10	58	59	
Chromium	ppm	ASTM D5185(m)	>20	1	2	2	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0	
Titanium	ppm	ASTM D5185(m)		<1	<1	<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2	
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	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	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)	0	4	3	3	
Barium	ppm	ASTM D5185(m)	0	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	55	50	47	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185(m)	1010	895	781	732	
Calcium	ppm	ASTM D5185(m)	1070	956	885	854	
Phosphorus	ppm	ASTM D5185(m)	1150	1003	867	794	
Zinc	ppm	ASTM D5185(m)	1270	1097	951	897	
Sulfur	ppm	ASTM D5185(m)	2060	2442	2075	1997	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	6	9	
Sodium	ppm	ASTM D5185(m)		5	8	15	
Potassium	ppm	ASTM D5185(m)	>20	2	4	16	
Fuel	%	ASTM D7593*	>5	<u> </u>	• 15.9	14.5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.2	1.6	1.2	
Nitration	Abs/cm	ASTM D7624*		6.3	15.0	14.5	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	31.0	30.2	
FLUID DEGRAI		method	limit/base	current	history1	history2	
Oxidation		ASTM D7414*	>25	15.8	35.6	32.6	
09:35) Rev: 1	FN90/.111111		~				
				Contact/Location: Allison Adams - GFL574			



OIL ANALYSIS REPORT



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