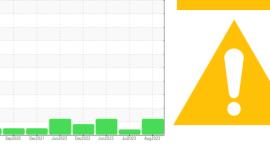


OIL ANALYSIS REPORT

Sample Rating Trend

limit/base



history1

current

FUEL

history2 GFL0082566



DIAGNOSIS

Machine Id 723002 Component

Diesel Engine Fluid

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

DIAGNOSIS	SAMPLE INFORM		method	limit/base	current	history i	nistory2
A Recommendation We recommend that you drain the oil from the	Sample Number		Client Info		GFL0090844	GFL0090839	GFL0082566
	Sample Date		Client Info		08 Aug 2023	31 Jul 2023	08 Jun 2023
component if this has not already been done. We	Machine Age	kms	Client Info		28589	14666	0
recommend an early resample to monitor this	Oil Age	kms	Client Info		0	0	273016
condition.	Oil Changed	Idillo	Client Info		N/A	Changed	N/A
Wear	-						
Metal levels are typical for a new component	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
breaking in.	CONTAMINATI	ON	method	limit/base	current	history1	history2
Contamination There is a moderate amount of fuel present in the	Glycol		WC Method		NEG	NEG	NEG
oil. Tests confirm the presence of fuel in the oil.	WEAR METALS	S	method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185(m)	>120	7	16	20
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>5	<1	1	2
	Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	1	4	4
	Lead	ppm	ASTM D5185(m)	>40	<1	2	<1
	Copper	ppm	ASTM D5185(m)	>330	1	3	4
	Tin	ppm	ASTM D5185(m)		<1	<1	<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
		ppin	()		Ũ		-
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	26	23	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	40	46	59
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	514	585	928
	Calcium	ppm	ASTM D5185(m)	1070	1592	1754	1121
	Phosphorus	ppm	ASTM D5185(m)	1150	772	891	990
	Zinc	ppm	ASTM D5185(m)	1270	859	991	1160
	Sulfur	ppm	ASTM D5185(m)	2060	2066	2311	2261
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	4	6	5
	Sodium	ppm	ASTM D5185(m)		3	4	9
	Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
			ASTM D7593*				
	Fuel	%	ASTIVI D7090	>3.0	A 3.1	2.5	4.
	Fuel	%			A 3.1	2.5	▲ 4.1
	INFRA-RED		method	limit/base	current	history1	history2
	INFRA-RED Soot %	%	method ASTM D7844*	limit/base	current 0.1	history1 0.6	history2 0.4
	INFRA-RED Soot % Nitration	% Abs/cm	method ASTM D7844* ASTM D7624*	limit/base >4 >20	current 0.1 8.6	history1 0.6 10.5	history2 0.4 11.0
	INFRA-RED Soot %	% Abs/cm Abs/.1mm	method ASTM D7844* ASTM D7624* ASTM D7415*	limit/base >4 >20	current 0.1	history1 0.6	history2 0.4

Abs/.1mm ASTM D7414* >25

20.0

SAMPLE INFORMATION method

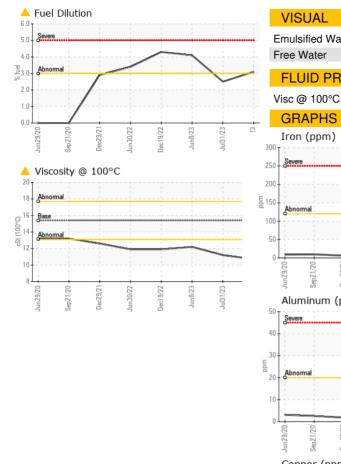
Oxidation

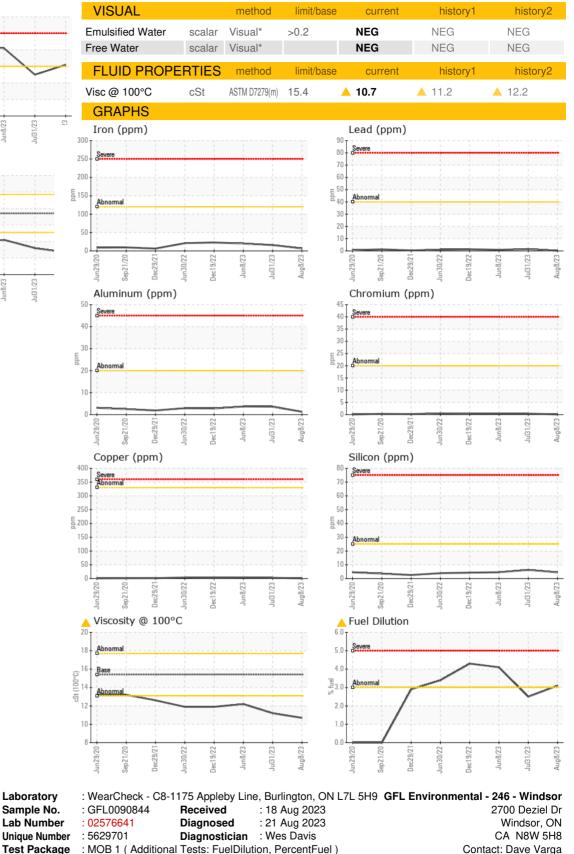
19.3

21.4



OIL ANALYSIS REPORT







To discuss this sample report, contact Customer Service at 1-800-268-2131.

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.

CALA

ISO 17025:2017 Accredited Laboratory

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