

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 8138

Diesel Engine PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0118984	GFL0112570	GFL0102617
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		07 Jul 2024	06 Apr 2024	07 Mar 2024
	Machine Age	hrs	Client Info		18112	17607	17462
	Oil Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
Wear	Sample Status				SEVERE	ABNORMAL	SEVERE
	CONTAMINAT	ION	method	limit/base	current	history1	history2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
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.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	maa	ASTM D5185(m)	>80	15	14	19
	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	0	0	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>30	<1	1	1
	Lead	ppm	ASTM D5185(m)	>30	2	<1	<1
	Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>5	0	0	0
	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	maa	ASTM D5185(m)	2	1	4	8
	Barium	maa	ASTM D5185(m)	0	0	0	0
	Molvbdenum	maa	ASTM D5185(m)	50	45	51	53
	Manganese	maa	ASTM D5185(m)	0	<1	0	0
	Magnesium	maa	ASTM D5185(m)	950	724	840	845
	Calcium	ppm	ASTM D5185(m)	1050	796	919	942
	Phosphorus	ppm	ASTM D5185(m)	995	797	857	854
	Zinc	ppm	ASTM D5185(m)	1180	907	1019	1023
	Sulfur	ppm	ASTM D5185(m)	2600	2005	2214	2189
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>20	2	2	2
	Sodium	ppm	ASTM D5185(m)		5	4	5
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Fuel	%	ASTM D7593*	>5	12.3	6 .9	▲ 8.1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0.5	0.5	0.5
	Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.5	8.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	19.4	19.4



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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW CALA Sample No. : GFL0118984 Received : 18 Jul 2024 8409 -15th Street NW Lab Number : 02648600 Tested : 19 Jul 2024 Edmonton, AB ISO 17025:2017 Accredited CA T6P 0B8 Unique Number : 5814152 Diagnosed : 19 Jul 2024 - Wes Davis Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)231-0521 Validity of results and interpretation are based on the sample and information as supplied. E:

Report Id: GFL554 [WCAMIS] 02648600 (Generated: 07/19/2024 09:29:24) Rev: 1

Submitted By: Brian Gagne Page 2 of 2