

# **OIL ANALYSIS REPORT**

Sample Rating Trend



### Machine Id 429012 .

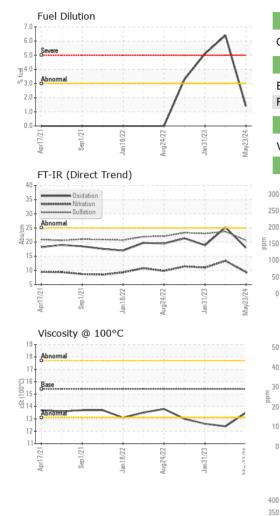
Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

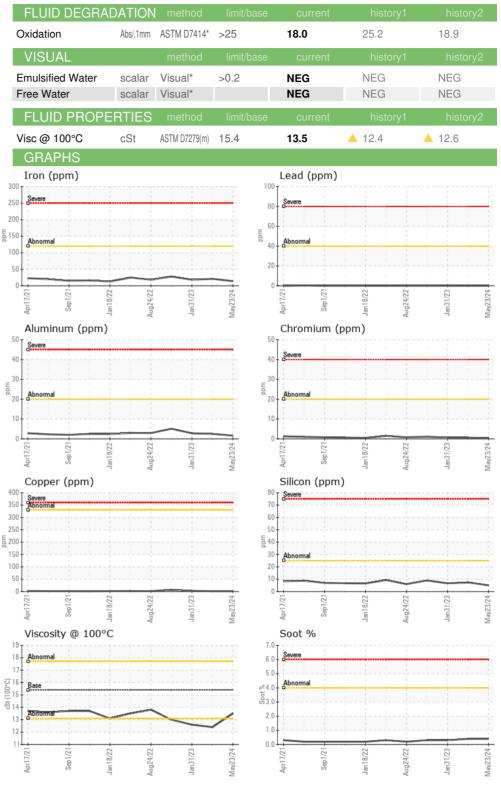
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0094974	GFL0044705	GFL0044762
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		23 May 2024	18 May 2023	31 Jan 2023
	Machine Age	hrs	Client Info		15705	13569	13069
	Oil Age	hrs	Client Info		2136	600	600
at this time.	Oil Changed		Client Info		Changed	Changed	Changed
Wear	Sample Status				NORMAL	SEVERE	ABNORMAL
All component wear rates are normal.	CONTAMINA		method	limit/base	current	history1	history2
Contamination Light fuel dilution occurring. No other contaminants were detected in the oil.		non		>0.2		NEG	NEG
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition The condition of the oil is acceptable for the time in service.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185(m)	>120	14	21	18
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
	Silver	ppm	ASTM D5185(m)	>2	<1	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	1	1	2
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	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			2	6	2
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	53	54	57
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	835	833	910
	Calcium	ppm		1070	1118	988	1023
	Phosphorus	ppm		1150	943	903	994
	Zinc	ppm		1270	1146	1047	1124
	Sulfur	ppm	ASTM D5185(m)		2501	2316	2443
	Lithium	ppm	ASTM D5185(m)	2000	<1	<1	<1
				11.0011/10.000			
	CONTAMINA		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	5	7	7
	Sodium	ppm	ASTM D5185(m)	00	4	5	6
	Potassium	ppm	ASTM D5185(m)		<1	2	2
	Fuel	%	ASTM D7593*	>3.0	1.4	<b>6</b> .4	▲ 5.1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>4	0.4	0.4	0.3
	Nitration	Abs/cm	ASTM D7624*	>20	9.4	13.4	11.0

# DIAGNOSIS



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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 577 - First Class CALA Sample No. : GFL0094974 Received : 12 Jul 2024 8540 Chilliwack Mountain Rd, Lab Number : 02647515 Tested : 15 Jul 2024 Chilliwack, BC ISO 17025:2017 Accredited Unique Number : 5813067 Diagnosed : 15 Jul 2024 - Kevin Marson CA V2R 3W8 Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Derek Jessop To discuss this sample report, contact Customer Service at 1-800-268-2131. djessop@gflenv.com T: (604)798-5301 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. E:

Report Id: GFL577 [WCAMIS] 02647515 (Generated: 07/15/2024 09:14:06) Rev: 1

Submitted By: Derek Jessop Page 2 of 2