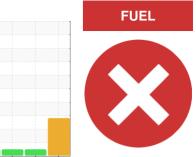


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2325 Component **Diesel Engine** Fluid

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

	``			eb2022 May2022 Sep20	122 Dec2022 Apr2023 Aug2023		
DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0028559	GFL0088996	GFL0077843
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		06 Mar 2024	28 Aug 2023	15 Apr 2023
	Machine Age	hrs	Client Info		22950	22448	22331
	Oil Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
Wear	Sample Status				SEVERE	NORMAL	NORMAL
All component wear rates are normal.		TION	un atla a d	lites it //s a a a		late to mid	biotom (O
Contamination	CONTAMINA	HON	method	limit/base		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 The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185(m)	>100	17	4	8
	Chromium	ppm	ASTM D5185(m)		1	<1	<1
	Nickel	ppm			<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	. ,		3	<1	2
	Lead	ppm	ASTM D5185(m)	>40	2	0	0
	Copper		ASTM D5185(m)		2	<1	<1
	Tin	ppm	ASTM D5185(m)		2 <1	0	0
	Antimony	ppm	ASTM D5185(m)	>10	< 1	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
		ppm	. ,		0	0	
	Beryllium	ppm	ASTM D5185(m)				0
	Cadmium	ppm	ASTM D5185(m)		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	<1	5	4
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	28	58	62
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	452	966	1015
	Calcium	ppm	ASTM D5185(m)	1070	511	1022	1144
	Phosphorus	ppm	. ,	1150	489	1065	1149
	Zinc	ppm		1270	558	1182	1244
	Sulfur	ppm	ASTM D5185(m)		1278	2650	2777
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
			method	limit/base	current	history1	history2
	CONTAMINA	NIS					
	CONTAMINA						
	Silicon	ppm	ASTM D5185(m)		6	2	3
	Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25	6 <1	2	3 2
	Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	6 <1 1	2 1 0	3 2 0
	Silicon Sodium Potassium Fuel	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25 >20	6 <1	2	3 2
	Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	6 <1 1 ▲ 48	2 1 0	3 2 0
	Silicon Sodium Potassium Fuel	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >5 limit/base	6 <1 1 ▲ 48	2 1 0 1.9	3 2 0 <1.0
	Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	>25 >20 >5 limit/base >3	6 <1 1 ▲ 48 current	2 1 0 1.9 history1	3 2 0 <1.0 history2



Base

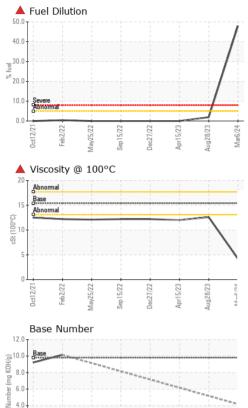
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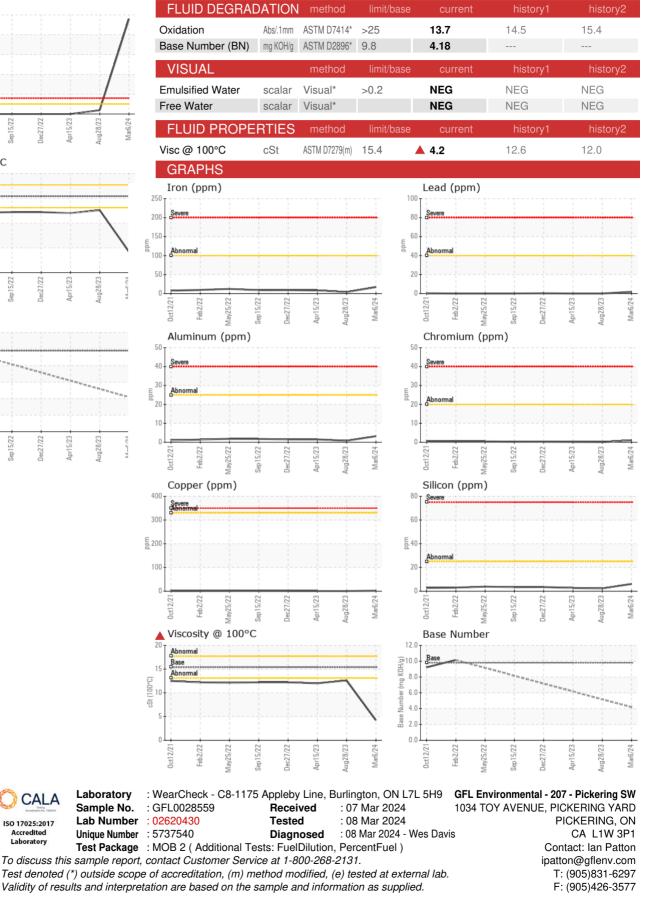
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OIL ANALYSIS REPORT





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