

## **OIL ANALYSIS REPORT**

Sample Rating Trend



**FUEL** 

**Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (20 LTR)

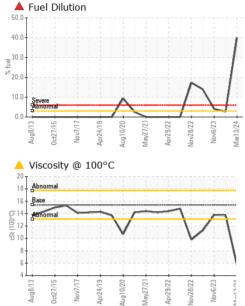
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0111115	GFL0103085	GFL0101080
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		13 Mar 2024	21 Nov 2023	06 Nov 2023
	Machine Age	kms	Client Info		157667	147595	146739
	Oil Age	kms	Client Info		737	0	0
	Oil Changed	KIIIO	Client Info		Changed	Changed	Changed
lear	Sample Status				SEVERE	ATTENTION	ABNORMAL
Il component wear rates are normal.	·				SEVENE	ATTENTION	ABROTIMAE
Contamination	CONTAMINA	TION	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	0.0	0.0
Fluid Condition	WEAR META	2	method	limit/base	current	history1	history2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.		LO			Current		
	Iron	ppm	ASTM D5185(m)		21	8	26
	Chromium	ppm	ASTM D5185(m)		1	<1	2
	Nickel	ppm	ASTM D5185(m)		<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	2	1	4
	Lead	ppm	ASTM D5185(m)		<1	2	8
	Copper	ppm	ASTM D5185(m)	>330	1	1	4
	Tin	ppm	ASTM D5185(m)	>15	0	0	<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
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	3	2	2
	Barium	ppm	ASTM D5185(m)		0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		34	55	55
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm		1010	552	921	898
	Calcium	ppm	ASTM D5185(m)		606	991	969
	Phosphorus	ppm			597	965	979
	Zinc	ppm	ASTM D5185(m)		668	1117	1075
	Sulfur	ppm	ASTM D5185(m)	2060	1583	2448	2400
	Sulfur Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	2060	1583 <1	2448 <1	2400 <1
	Lithium	ppm	ASTM D5185(m)	2060 limit/base	<1	<1	<1
		ppm NTS		limit/base	<1		<1
	Lithium CONTAMINAI Silicon	ppm NTS ppm	ASTM D5185(m) method ASTM D5185(m)	limit/base	<1 current 5	<1 history1 2	<1 history2 4
	Lithium CONTAMINA	ppm NTS ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	<1 current 5 68	<1 history1 2 169	<1 history2 4 886
	Lithium CONTAMINAI Silicon Sodium	ppm NTS ppm	ASTM D5185(m) method ASTM D5185(m)	limit/base >25 >20	<1 current 5	<1 history1 2	<1 history2 4
	Lithium CONTAMINA Silicon Sodium Potassium Fuel	ppm NTS ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >25 >20	<1 <u>current</u> 5 68 3 40	<1 history1 2 169 1 2.7	<1 history2 4 886 6 4.1
	Lithium CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED	ppm NTS ppm ppm ppm %	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	limit/base >25 >20 >3.0 limit/base	<1 <u>current</u> 5 68 3 40 <u>current</u>	<1 history1 2 169 1 2.7 history1	<1 history2 4 886 6 4.1 history2
	Lithium CONTAMINA Silicon Sodium Potassium Fuel	ppm NTS ppm ppm ppm %	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	limit/base >25 >20 >3.0 limit/base >6	<1 <u>current</u> 5 68 3 40	<1 history1 2 169 1 2.7	<1 history2 4 886 6

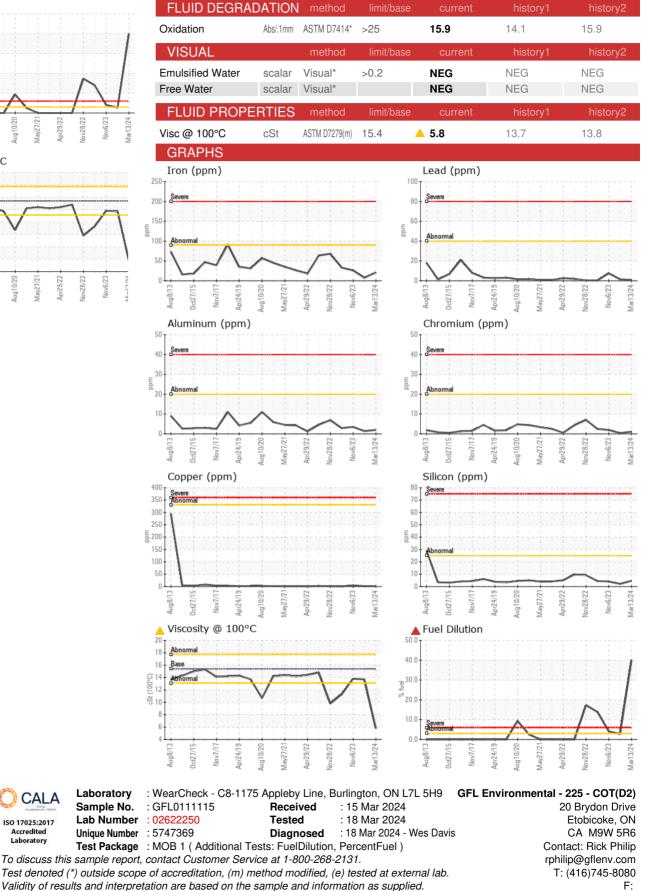
## DIAGNOSIS

Machine Id 7940 Component



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