

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 728002

Fluid

Component **Diesel Engine** 

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





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DIAGNOSIS	SAMPLE INFOR	KIMATION		limit/base		history1	history2
Recommendation	Sample Number		Client Info		GFL0102870	GFL0097302	GFL0053578
Confirm the source of the lubricant being utilized for	Sample Date		Client Info		21 Mar 2024	08 Dec 2023	29 Sep 2023
op-up/fill. Resample at the next service interval to nonitor.	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		14592	14020	0
Near	Oil Changed		Client Info		N/A	N/A	N/A
All component wear rates are normal.	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Contamination Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	0.7	0.7
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	-	0		11 1. //			
	WEAR META	_S	method	limit/base	current	history1	history2
Fluid Condition Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Iron	ppm	ASTM D5185(m)		8	6	4
	Chromium	ppm	ASTM D5185(m)		<1	<1	0
	Nickel	ppm	ASTM D5185(m)		1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	4	3	1
	Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	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	ppm	ASTM D5185(m)	0	98	38	48
	Barium	ppm	ASTM D5185(m)		0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		5	42	42
	Manganese	ppm	ASTM D5185(m)		0	0	0
	Magnesium	ppm	ASTM D5185(m)		69	510	539
	Calcium	ppm	ASTM D5185(m)		2042	1687	1597
	Phosphorus	ppm	ASTM D5185(m)	1150	859	701	743
	Zinc	ppm	ASTM D5185(m)		1090	868	882
	Sulfur	ppm	ASTM D5185(m)	2060	2555	1951	2075
	Lithium	ppm	ASTM D5185(m)	1000	<1	<1	<1
	CONTAMINA	NTS	method	limit/base		history1	history2
						· · · · ·	
		ppm	ASTM D5185(m)	>20	1 4	4	7
	Silicon	10.10.100			4		
	Sodium	ppm	ASTM D5185(m)	00		3	3
	Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	5	3 0	0
	Sodium		( /	>20 limit/base	5		
	Sodium Potassium		ASTM D5185(m)	limit/base	5	0	0
	Sodium Potassium INFRA-RED	ppm	ASTM D5185(m) method	limit/base >4	5 current	0 history1	0 history2

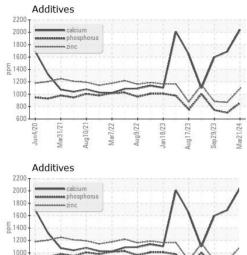


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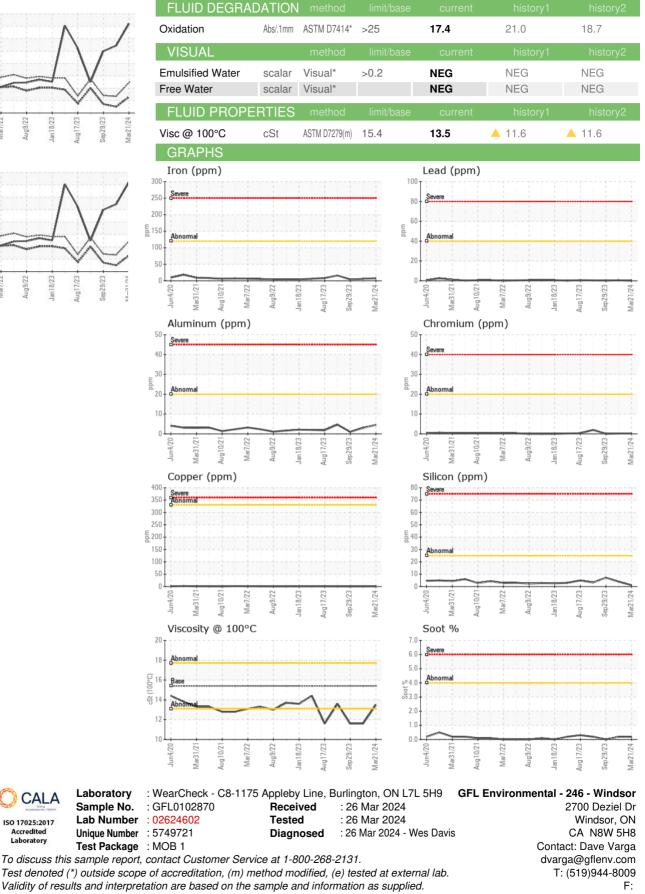
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## **OIL ANALYSIS REPORT**



an18/23 Aug17/23



CALA

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Laboratory