

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **110010** Component **Diesel Engine** Fituid **PETRO CANADA DURON SAE 10W30 (--- LTR)**

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

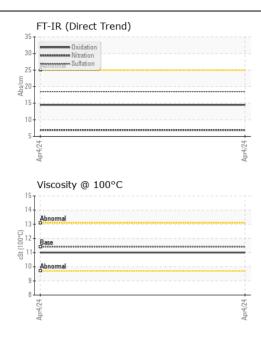
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

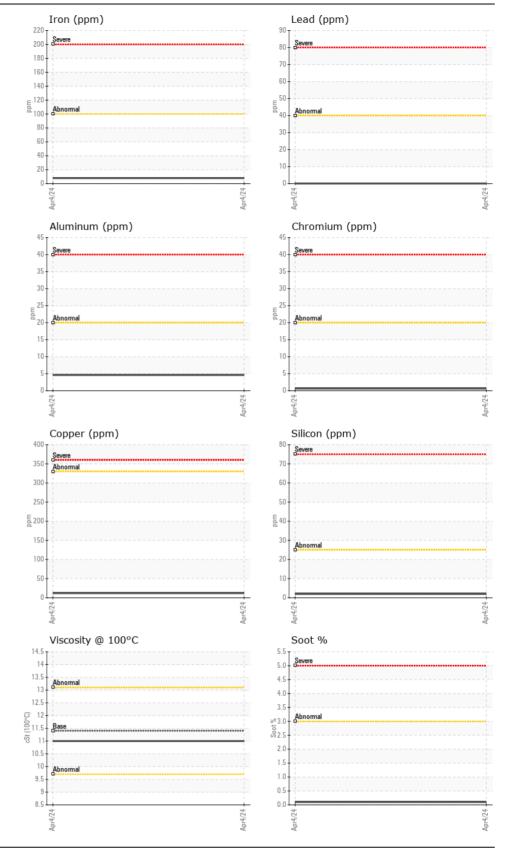
FLUID CONDITION

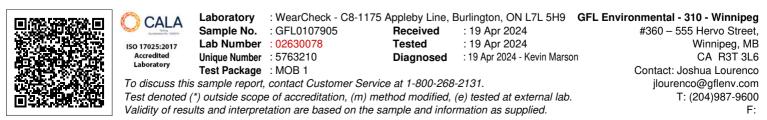
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107905		
Sample Date		Client Info		04 Apr 2024		
Machine Age	hrs	Client Info		6247		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron			. 100	0		
Iron	ppm	ASTM D5185(m)	>100	8 <1		
Chromium	ppm	ASTM D5185(m)	>20			
Nickel Titanium	ppm	ASTM D5185(m)	>4	<1		
Silver	ppm	ASTM D5185(m)	.2	0		
	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	5 0		
Lead	ppm	ASTM D5185(m)	>40	-		
Copper	ppm	ASTM D5185(m)	>330	12		
Tin	ppm	ASTM D5185(m)	>15	<1		
Vanadium	ppm	ASTM D5185(m)		0		
Silicon	ppm	ASTM D5185(m)	>25	2		
Potassium	ppm	ASTM D5185(m)	>20	6		
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	6.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Codium						
Sodium Boron	ppm	ASTM D5185(m) ASTM D5185(m)	1	1		
	ppm			4		
Barium	ppm	ASTM D5185(m)	1	0		
Molybdenum	ppm	ASTM D5185(m)	1	59		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium Calcium	ppm	ASTM D5185(m)	10 2942	974 1065		
	ppm	ASTM D5185(m)		1065		
Phosphorus Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	1102 1351	960 1136		
Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)		2447		
Oxidation	ppm	ASTM D5185(m) ASTM D7414*	3903	2447 14.5		
	Abs/.1mm		>25			
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.0		

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