

Machine Id **433006** Component **Diesel Engine** Fluid **PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a components first oil change.

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.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0117290		
	Sample Date		Client Info		18 Apr 2024		
	Machine Age	hrs	Client Info		1494		
	Oil Age	hrs	Client Info		1494		
	Filter Age	hrs	Client Info		1494		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
	Iron			. 100	72		
	Iron Chromium	ppm	ASTM D5185(m)	>100	72 <1		
	Nickel	ppm	ASTM D5185(m)	>20			
		ppm	ASTM D5185(m)	>4	<1		
	Titanium	ppm	ASTM D5185(m)	0	<1		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	5		
	Lead	ppm	ASTM D5185(m)	>40	10		
	Copper	ppm	ASTM D5185(m)	>330	12		
	Tin	ppm	ASTM D5185(m)	>15	2		
	Vanadium	ppm	ASTM D5185(m)		0		
	Silicon	ppm	ASTM D5185(m)	>25	77		
	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		
	Nitration	Abs/cm	ASTM D7624*	>20	10.4		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
	Sodium				4		
		ppm	ASTM D5185(m) ASTM D5185(m)	1	4		
	Boron	ppm			_		
	Barium	ppm	ASTM D5185(m) ASTM D5185(m)	1	5		
	Molybdenum	ppm	(/	60	104		
	Manganese	ppm	ASTM D5185(m)	1	5		
	Magnesium	ppm	ASTM D5185(m)	1010	696		
	Calcium	ppm	ASTM D5185(m)	1070	1401		
	Phosphorus Zine	ppm	ASTM D5185(m)	1150	688		
	Zinc	ppm	ASTM D5185(m)	1270	851		
	Sulfur	ppm	ASTM D5185(m)	2060	2125		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1		
	Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	5.40		

ASTM D7279(m) 15.5

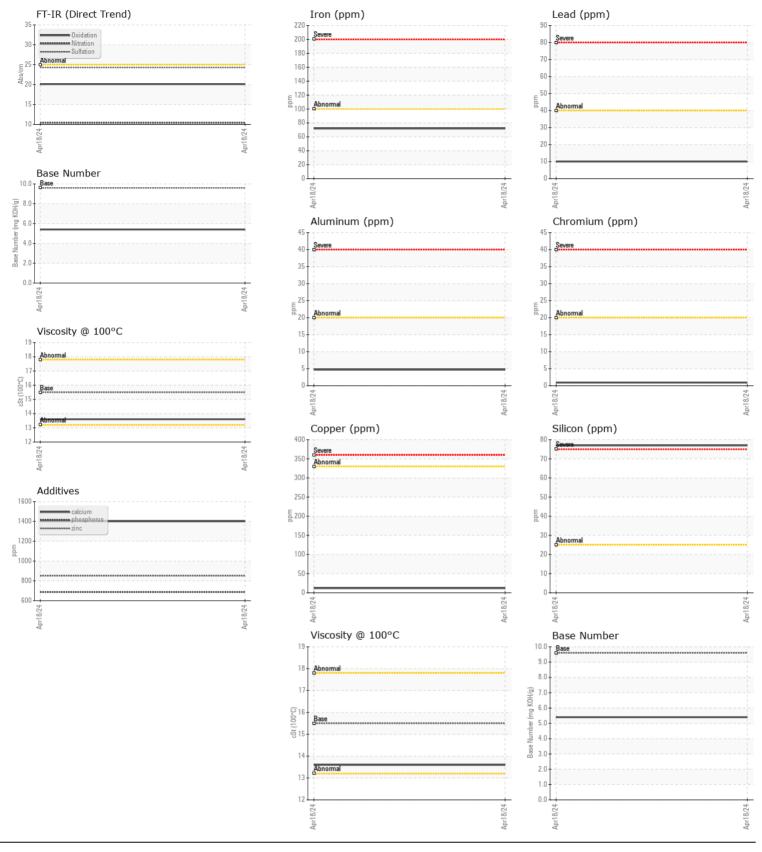
Visc @ 100°C cSt

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Contact/Location: GFL Calgary - GFL550

13.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County CALA Sample No. Received : GFL0117290 : 23 Apr 2024 220 Carmek Blvd Lab Number : 02630889 Tested : 23 Apr 2024 Rocky View County, AB ISO 17025:2017 Diagnosed Accredited Unique Number : 5772042 : 24 Apr 2024 - Kevin Marson CA T1X 1X1 Laboratory Test Package : MOB 2 Contact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: F: (403)369-6163 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: GFL Calgary - GFL550 Page 2 of 2