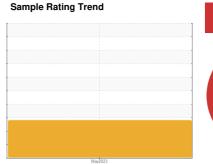


OIL ANALYSIS REPORT





2006 Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

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 a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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.

5W40 (GAL)					
SAMPLE INFOR	•	method	limit/base	May/2023 Current	history 1	history 2
Sample Number		Client Info		GFL0077581		
Sample Date		Client Info		26 May 2023		
Machine Age	hrs	Client Info		18069		
Oil Age	hrs	Client Info		521		
Oil Changed	0	Client Info		Changed		
Sample Status				SEVERE		
CONTAMINA	TION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185(m)	>100	66		
Chromium	ppm	ASTM D5185(m)	>20	5		
Nickel	ppm	ASTM D5185(m)	>2	1		
Γitanium	ppm	ASTM D5185(m)	>2	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	9		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	6		
Γin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)	1.0	0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	1	12		
Barium	ppm	ASTM D5185(m)	1	0		
Molybdenum	ppm	ASTM D5185(m)	60	55		
Manganese	ppm	ASTM D5185(m)	1	<1		
Magnesium	ppm	ASTM D5185(m)	1010	932		
Calcium	ppm	ASTM D5185(m)	1070	822		
Phosphorus		ASTM D5185(m)	1150	950		
•	ppm	ASTM D5185(m)				
Zinc	ppm	, ,		1068		
Sulfur	ppm	ASTM D5185(m)	2060	2271		
Lithium	ppm	ASTM D5185(m)	11 11 11	<1		
CONTAMINAL		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>25	14		
Sodium	ppm	ASTM D5185(m)	00	10		
Potassium - ·	ppm	ASTM D5185(m)	>20	11		
Fuel	%	ASTM D7593*	>5	8.4		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	0.7		
Nitration	Abs/cm	ASTM D7624*	>20	14.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.6		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0077581 : 02568196

Received Diagnosed : 5605242

Diagnostician : Kevin Marson **Test Package**: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 06 Jul 2023 : 07 Jul 2023

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: Jack Levesque

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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