

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION ABNORMAL

Current

WC0804343

History1

History2

WC0450335 WC00281480

## [FLE.22.03134]

### **FORD 285**

# Diesel Engine

# PETRO CANADA DURON UHP 5W40 (24 LTR)

Test

Sample Number

UOM

Method

**Client Info** 

Limit/Abn

#### RECOMMENDATION

Resample at the next service interval to monitor.

#### 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. Light fuel dilution occurring.

	Sample Date		Client Info		27 Jun 2023	25 Feb 2021	17 Nov 1994
	Machine Age	kms	Client Info		0	1016	9341
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	NORMAL	
	Iron		AGTM D5195(m)	×100	27	20	0
	Chromium	nom	ASTM D5185(m)	>20	1	1	-1
	Nickel	ppm	ASTM D5185(m)	>20	-1	-1	0
	Titanium	nnm	ASTM D5185(m)	~7	0	0	
	Silver	nom	ASTM D5185(m)	-3	-1	<1	~1
	Aluminum	nom	ASTM D5185(m)	>20	3	3	3
	Lead	nom	ASTM D5185(m)	> <u>4</u> 0	۰ د1	<1	4
	Copper	npm	ASTM D5185(m)	>330	2	5	1
	Tin	ppm	ASTM D5185(m)	>15	- <1	1	2
	Vanadium	ppm	ASTM D5185(m)	, 10	0	0	
		le le					
	Silicon	ppm	ASTM D5185(m)	>25	6	9	5
	Potassium	ppm	ASTM D5185(m)	>20	12	4	6
	Fuel	%	ASTM D7593*	>5	<b>^</b> 2	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.5	0.3	
	Nitration	Abs/cm	ASTM D7624*	>20	13.2	11.0	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	23.1	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Sodium	nom	ASTM D5185(m)		9	5	3
	Boron	ppm	ASTM D5185(m)	65	19	25	2
	Barium	mag	ASTM D5185(m)	0	<1	<1	
	Molvbdenum	mag	ASTM D5185(m)	65	61	53	2
	Manganese	ppm	ASTM D5185(m)	0	<1	2	
	Magnesium	ppm	ASTM D5185(m)	1160	1004	1048	459
	Calcium	ppm	ASTM D5185(m)	820	903	921	1306
	Phosphorus	ppm	ASTM D5185(m)	1160	907	940	1083
	Zinc	ppm	ASTM D5185(m)	1260	1106	1214	1132
	Sulfur	ppm	ASTM D5185(m)	3000	2711	2825	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	23.3	21.0	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.3	A 11.9	12.4	12.3

#### FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Contact/Location: Jeff Morden - CITSSM









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