

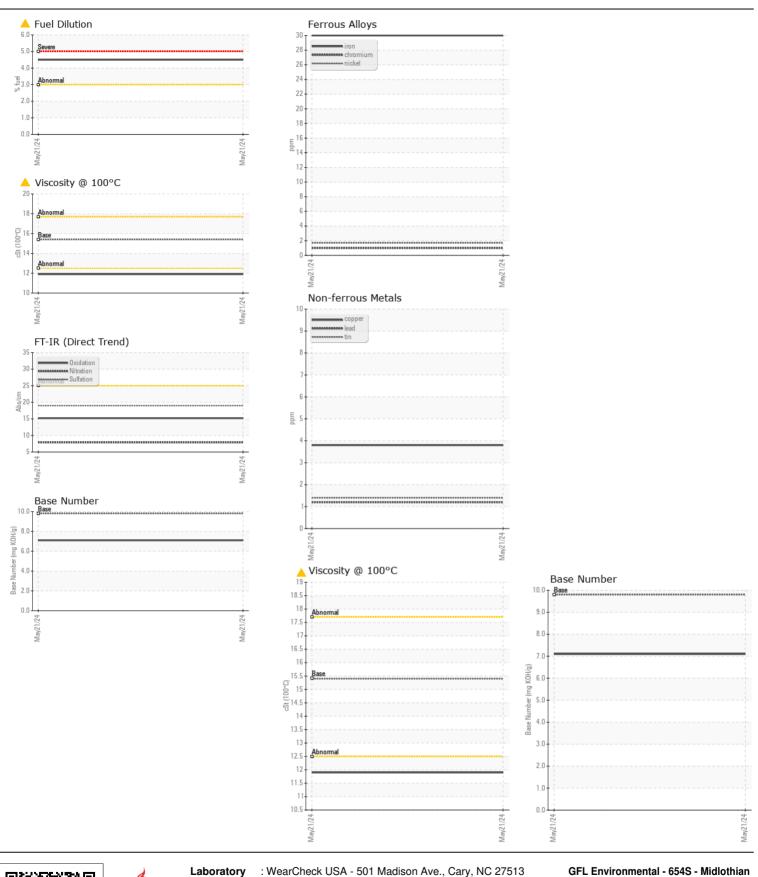
Machine Id
722008
Component
Diesel Engine

PETRO CANADA DURON SHP							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0113654		
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		21 May 2024		
	Machine Age	hrs	Client Info		14162		
	Oil Age	hrs	Client Info		533		
	Filter Age	hrs	Client Info		533		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	nnm	ASTM D5185m	×120	30		
WEAN		ppm					
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7		
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	6		
	Fuel	%	ASTM D3524	>3.0	4.5		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>4	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
ELUID CONDITION	C = ali:		ACTM DE10E				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2		
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.	Boron	ppm	ASTM D5185m		8		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		62		
	Manganese	ppm	ASTM D5185m		<1 899		
	Magnesium Calcium	ppm	ASTM D5185m				
		ppm	ASTM D5185m		1155		
	Phosphorus	ppm	ASTM D5185m		960		
	Zinc	ppm	ASTM D5185m		1218		
	Sulfur	ppm	ASTM D5185m		3302		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		15.2 7.1		
	Race Number (RM)	ma k()H/a	ASTIVITI2896	9 X	/ 1		

Visc @ 100°C cSt

11.9

ASTM D445 15.4





Laboratory Sample No.

Lab Number : 06189942

: GFL0113654

Unique Number : 11046694

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024

Tested : 29 May 2024 Diagnosed : 29 May 2024 - Wes Davis

12230 Deergrove Road

Midlothian, VA US 23112 Contact: Chuck Warr

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: