WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



(48016R) {UNASSIGNED}

421044

Diesel Engine

PETRO CANADA 15W40 (--- GAL)

PETRO CANADA 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number		Client Info		GFL0119862		
Resample at the next service interval to monitor.	Sample Date		Client Info		20 May 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAD	lunu		ACTM DE10E	100	40		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	-	13		
	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1 <1		
	Titanium	ppm ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
There is no indication of any containing to in the oil.	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	4	NEG		
	Soot % Nitration	%	*ASTM D7844		0.4		
	Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.2 20.1		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		<1		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		64		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		1031		
	Calcium	ppm	ASTM D5185m		1150		
	Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		1083 1366		
	Sulfur	ppm ppm	ASTM D5185m		3507		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	17.3		
	Base Number (BN)			/20	6.7		
	Visc @ 100°C	cSt	ASTM D445		13.8		
					.5.5		





Certificate L2367

Laboratory Sample No.

Lab Number : 06188558 Unique Number : 11045310 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119862 Received : 22 May 2024

Tested : 24 May 2024 Diagnosed : 24 May 2024 - Wes Davis

GFL Environmental - 958 - Tri County HC Morton

1090 W. Jefferson St. Morton, IL US 61550

Contact: Bryan Link blink@gflenv.com T:

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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