WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **229047**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DECOMMENDATION	Tast	LIOM	Madaaal	Lineit/Alex	O	Libetamid	l l:-4
RECOMMENDATION	Test	UOM	Method Client Info	Limit/Abn	Current GFL0121229	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		06 Jun 2024	GFL0118608	
	Machine Age	mls	Client Info		287163	02 Apr 2024 0	
	Oil Age	mls	Client Info		0	5000	
	Filter Age	mls	Client Info		0	5000	
	Oil Changed	11113	Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>110	6	13	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	0	<1	
	Nickel	ppm	ASTM D5185m	>2	<1	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>25	2	2	
	Lead	ppm	ASTM D5185m		<1	1	
	Copper	ppm	ASTM D5185m		0	<1	
	Tin	ppm	ASTM D5185m	>4	0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	-30	3	5	
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	2	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	70.L	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624		7.0	7.8	
	Sulfation	Abs/.1mm	*ASTM D7415		18.1	19.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		4	2	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		54	62	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		946	961	
	Calcium	ppm	ASTM D5185m		1159	1208	
	Phosphorus	ppm	ASTM D5185m		1094	1074	
	Zinc	ppm	ASTM D5185m		1293	1284	
	Sulfur	ppm	ASTM D5185m		3734	3412	
	Ovidation	1 ho/ 1	* 1 CT 1 1 D 7 4 4 4	. 0.			
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		14.7 8.2	16.2 8.2	







Certificate L2367

Laboratory Sample No.

Lab Number : 06215374 Unique Number : 11088238 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0121229 Received : 20 Jun 2024 : 21 Jun 2024

Tested Diagnosed

: 21 Jun 2024 - Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45

Mayfield, KY US 42066 Contact: Jack Lindsey

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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)