WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION



(61AATE4) Machine Id 214009

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0115820		
	Sample Date		Client Info		05 Apr 2024	22 Feb 2024	
	Machine Age	hrs	Client Info		404	144	
	Oil Age	hrs	Client Info		404	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ATTENTION	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>120	63	52	
WEAR	Chromium	ppm	ASTM D5185m		2	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		- <1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum		ASTM D5185m		10	8	
	Lead	ppm	ASTM D5185m		10	0	
	Copper	ppm	ASTM D5185m		73	51	
	Tin	ppm ppm	ASTM D5165III		/3 <1	0	
	Vanadium		ASTM D5185m	>13	<1 <1	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
<u></u>	Tellow Metal	scalar	VISUAI	NONE	INOINE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	27	26	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	26	12	
	Fuel		WC Method	>3.0	<1.0	0.6	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.6	
	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	
I LUD CONDITION	Codium	nnm	ACTM DE10Em		0	7	
LUID CONDITION	Sodium	ppm	ASTM D5185m	0	8 47		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron Barium	ppm	ASTM D5185m		47 6	57 5	
		ppm	ASTM D5185m		6 40		
	Molybdenum	ppm	ASTM D5185m		40 5	44	
	Manganese	ppm	ASTM D5185m		5	5	
	Magnesium	ppm	ASTM D5185m		525 1565	553	
	Calcium	ppm	ASTM D5185m		1565	1474	
	Phosphorus	ppm	ASTM D5185m		718	755	
	Zinc	ppm	ASTM D5185m		880	940	
	Sulfur	ppm	ASTM D5185m		2568	2537	
	Outstant!						
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		22.0 8.4	19.5 9.6	





Certificate L2367

Laboratory Sample No.

: GFL0115820 Lab Number : 06151000 Unique Number: 10981078 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested**

: 17 Apr 2024 Diagnosed : 19 Apr 2024 - Sean Felton

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)

13737 Plant Rd Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.com

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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