WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

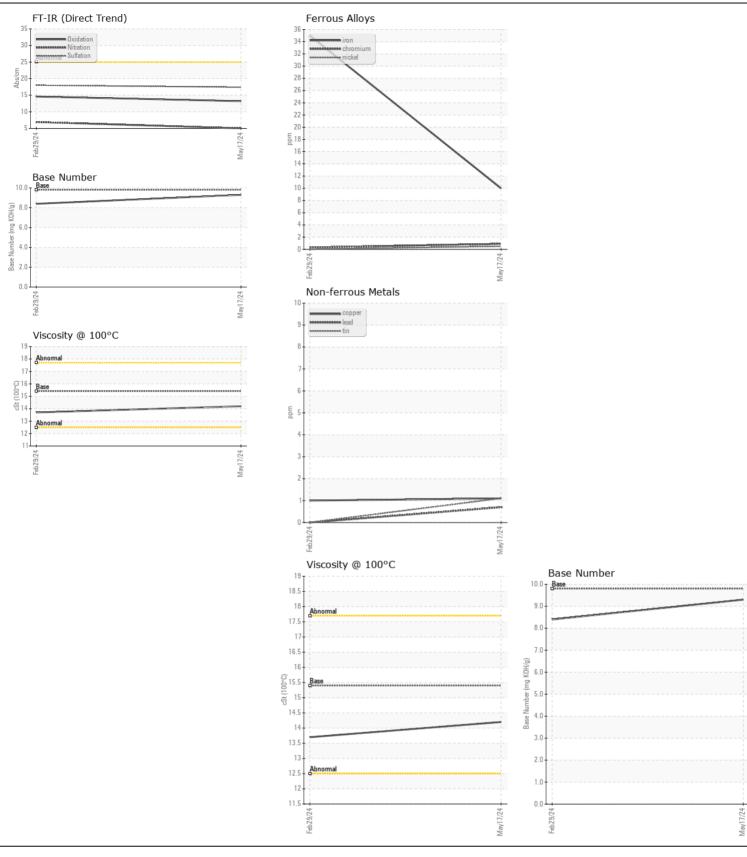
Machine Id

Cascadia

Component Diesel Engine

PETRO CANADA DURON SHD 15W/10 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0118835	GFL0108053	
	Sample Date		Client Info		17 May 2024	29 Feb 2024	
	Machine Age	hrs	Client Info		11386	11354	
	Oil Age	hrs	Client Info		32	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>90	10	35	
VEAIL	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver		ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		3	6	
		ppm			_		
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 1	0	
	Copper Tin	ppm				0	
		ppm	ASTM D5185m ASTM D5185m	>15	1		
	Vanadium White Metal	ppm		NONE	<1 NONE	0 NONE	
		scalar	*Visual	NONE	NONE		
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	6.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.0	
	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	
LUID CONDITION	Sodium	nnm	ASTM D5185m		2	0	
LOID CONDITION	Boron	ppm	ASTM D5185m	0	4	18	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		60	65	
	Manganese		ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		931	849	
	Calcium	ppm	ASTM D5185m		1089	1071	
	Phosphorus	ppm	ASTM D5185m		1076	945	
	Zinc		ASTM D5185m		1197	1138	
	Sulfur	ppm	ASTM D5185m		3583	2851	
	Oxidation	ppm Abs/.1mm	*ASTM D7414		13.2	14.6	
	Base Number (BN)				9.3	8.4	
			MAD LIVI LIZAMA	7.0	9.3	0.4	







Certificate L2367

Laboratory Sample No.

Lab Number : 06187364 Unique Number : 11044116 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118835 Received : 22 May 2024

Tested : 23 May 2024 Diagnosed : 24 May 2024 - Don Baldridge

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO US 64701

Contact: SARA PATRICK

To discuss this sample report, contact Customer Service at 1-800-237-1369. spatrick@gflenv.com

* - 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) T:

F: