WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

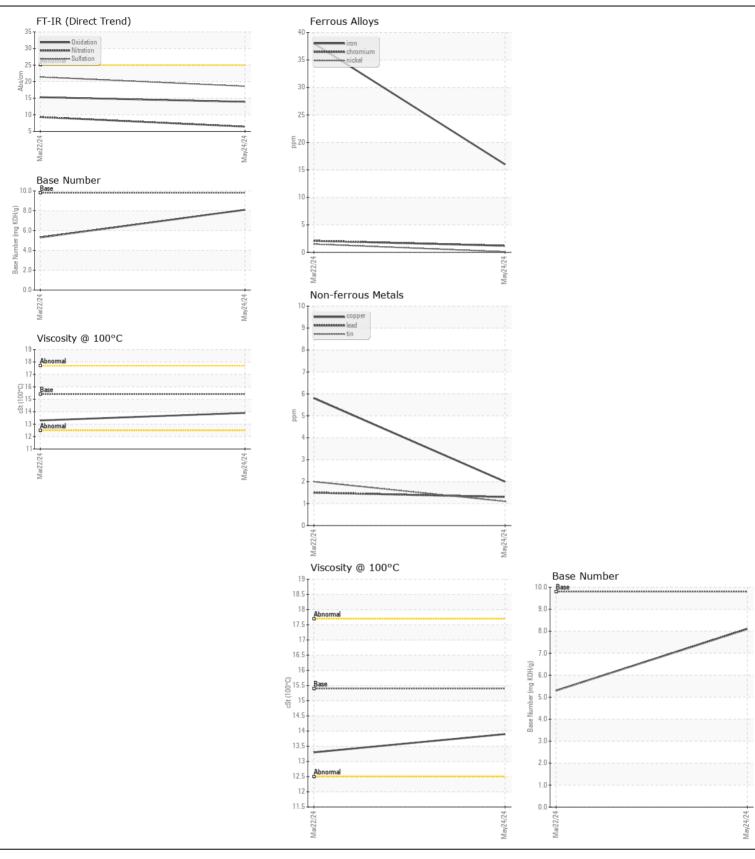
(YA163450) 020

929146 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0117860	GFL0103781	
Resample at the next service interval to monitor.	Sample Date		Client Info		24 May 2024	22 Mar 2024	
	Machine Age	hrs	Client Info		8031	7577	
	Oil Age	hrs	Client Info		454	600	
	Filter Age	hrs	Client Info		454	600	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	×120	16	38	
WEAR	Chromium	ppm	ASTM D5185m		1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	2	
	Titanium	ppm	ASTM D5185m		<1	1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		5	8	
	Lead	ppm	ASTM D5185m		1	2	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m		1	2	
	Vanadium	ppm	ASTM D5185m	>10	- <1	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
		scalar	Visuai	INOINL	NONE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	24	
	Potassium	ppm	ASTM D5185m	>20	5	6	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.4	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	21.4	
	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	
ELUID CONDITION						,	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	1	
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	26	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		64	86	
	Manganese	ppm	ASTM D5185m		<1	104	
	Magnesium	ppm	ASTM D5185m ASTM D5185m		936	194	
	Calcium Phosphorus	ppm			1325	2006 1087	
		ppm	ASTM D5185m ASTM D5185m		1166		
	Zinc Sulfur	ppm			1347	1189	
		ppm Abo/ 1mm	ASTM D5185m		3918	3582	
	Oxidation	Abs/.1mm	*ASTM D7414		13.9	15.3	
	Base Number (BN)		ASTM D2896		8.1	5.3	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.3	





Certificate L2367

Report Id: GFL020 [WUSCAR] 06195079 (Generated: 05/31/2024 08:59:26) Rev: 1

Laboratory Sample No.

: GFL0117860 Lab Number : 06195079 Unique Number : 11057202 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested**

: 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

GFL Environmental - 020 - Alamance 703 East Gilbreath St

Graham, NC US 27253 Contact: Jorge Costa

jorge.costa@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) F: (336)229-0526