WEAR CONTAMINATION FLUID CONDITION

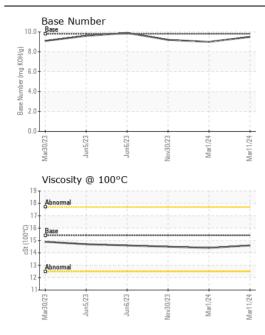
NORMAL NORMAL

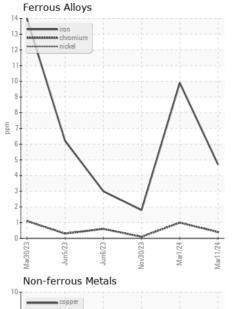


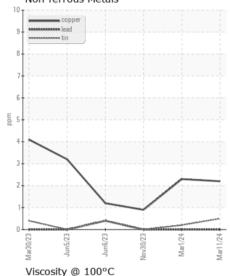
420089 - SW4012

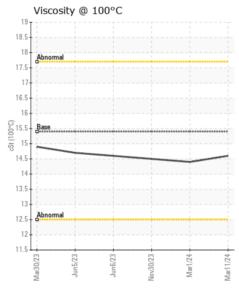
Component Diesel Engine

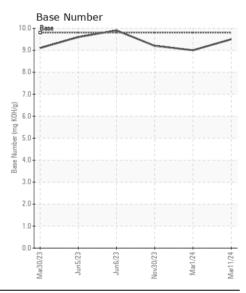
PETRO CANADA DURON SHP	15W40 ((GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIEGOWWENDATION	Sample Number	OOW	Client Info	LITTIO7 COTT	GFL0114470	GFL0114489	GFL0100465
Resample at the next service interval to monitor. (Customer Sample Comment: Engine sample was taken no oil was changed was performed)	Sample Date		Client Info		11 Mar 2024	01 Mar 2024	30 Nov 2023
	Machine Age	hrs	Client Info		10993	10926	173185
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Change		Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	5	10	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	3	4	2
	Lead	ppm	ASTM D5185m	>30	0	0	0
	Copper	ppm	ASTM D5185m	>150	2	2	<1
	Tin	ppm	ASTM D5185m	>5	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	4	3
There is no indication of any content in the city	Potassium	ppm	ASTM D5185m	>20	3	4	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	4.9	5.9	4.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.0	17.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	<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		<1	0	4
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		62	58	56
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		986	933	996
	Calcium	ppm	ASTM D5185m		1152	1004	1058
	Phosphorus	ppm	ASTM D5185m		983	940	1100
	Zinc	ppm	ASTM D5185m		1256	1175	1295
	Sulfur	ppm	ASTM D5185m		3448	2867	3257
	Oxidation	Abs/.1mm	*ASTM D7414		13.4	14.0	13.3
	Base Number (BN)				9.5	9.0	9.2
	Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.4	14.5













Certificate L2367

Laboratory Sample No.

: GFL0114470 Lab Number : 06125402 Unique Number: 10939553 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested** : 22 Mar 2024

: 25 Mar 2024 - Don Baldridge Diagnosed

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050

> Contact: Saul Castillo saul.castillo@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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