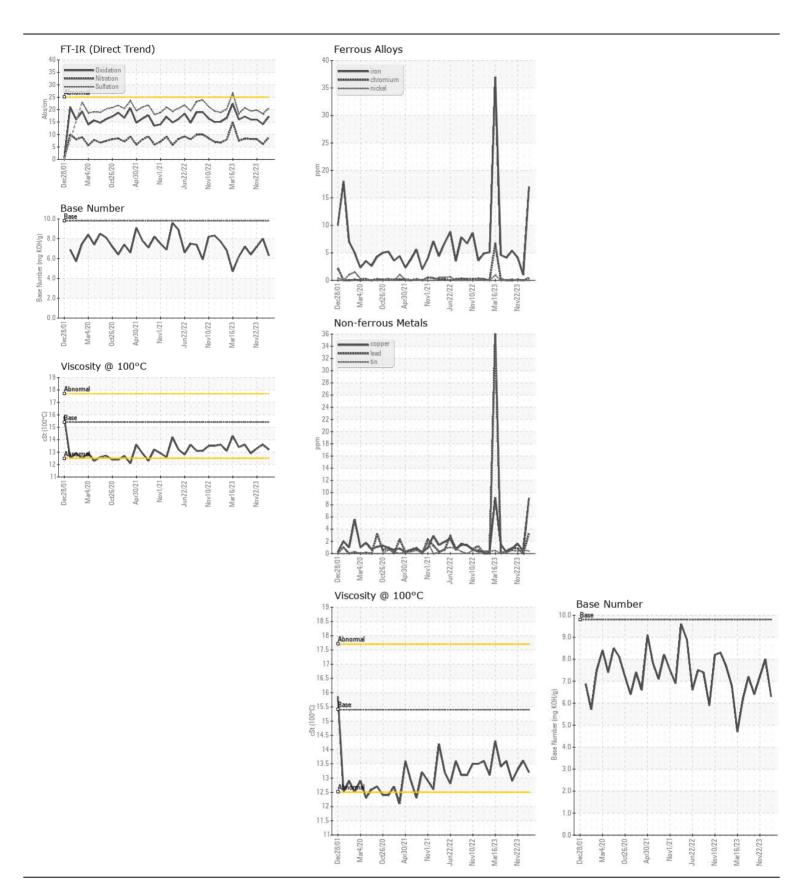
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

(YA130535)

3877
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

PETRO CANADA DURON SHP	15440 (10 (JAL)			.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0124466	GFL0098530	GFL0098509
Resample at the next service interval to monitor. (Customer Sample Comment: oil service)	Sample Date		Client Info		18 Jun 2024	28 Dec 2023	22 Nov 2023
	Machine Age	hrs	Client Info		19460	15581	18340
	Oil Age	hrs	Client Info		900	600	600
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	17	1	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	1	<1
	Lead	ppm	ASTM D5185m		3	0	<1
	Copper	ppm	ASTM D5185m	>330	9	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	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	>25	7	3	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	<1	0
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\4	0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.1	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		20.6	18.3	19.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	1	4
TEGIB CONDITION	Boron	ppm	ASTM D5185m	0	<1	2	2
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	0
	Molybdenum	ppm	ASTM D5185m		62	55	58
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1026	927	951
	Calcium	ppm	ASTM D5185m		1277	1016	1093
	Phosphorus	ppm	ASTM D5185m		1090	1019	1017
	Zinc	ppm	ASTM D5185m		1421	1236	1263
	Sulfur	ppm	ASTM D5185m		3045	2958	2675
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	14.1	16.0
	Base Number (BN)				6.3	8.0	7.2
	Visc @ 100°C	cSt	ASTM D445		13.2	13.6	13.3
	1,00 @ 100 0	001	. 10 1111 0 1-10	10.7	.5.2		. 5.0







Certificate L2367

Report Id: GFL006 [WUSCAR] 06215663 (Generated: 06/22/2024 10:48:29) Rev: 1

Laboratory Sample No.

Lab Number : 06215663 Unique Number : 11088527 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0124466 : 20 Jun 2024

Tested : 21 Jun 2024 Diagnosed : 22 Jun 2024 - Don Baldridge

GFL Environmental - 006 - Wilmington 3618 US Highway 421 N

Wilmington, NC US 28401

Contact: NEIL GRIFFIN

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F: (910)762-6880

* - 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)