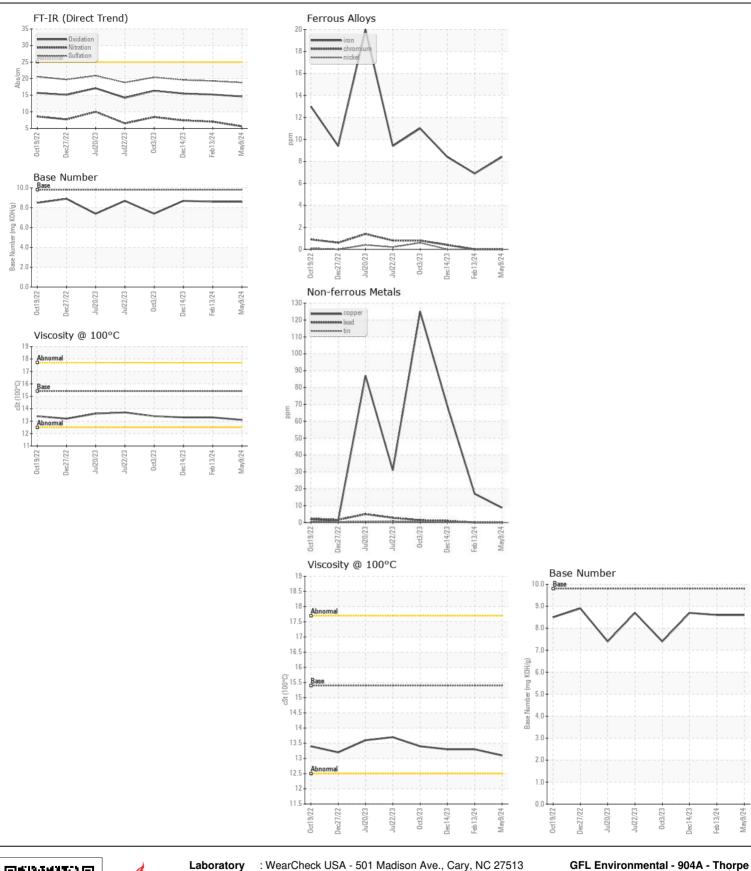
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

929108-285

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (37 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0108541	GFL0108561	GFL0066149
	Sample Date		Client Info		09 May 2024	13 Feb 2024	14 Dec 202
	Machine Age	hrs	Client Info		0	12899	12370
	Oil Age	hrs	Client Info		0	600	600
	Filter Age	hrs	Client Info		0	600	600
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	8	7	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	0	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	1	1
	Lead	ppm	ASTM D5185m	>45	0	0	1
	Copper	ppm	ASTM D5185m	>85	9	17	69
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	2	4	8
	Potassium	ppm	ASTM D5185m	>20	0	1	3
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	0.2	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.0	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.3	19.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	5	9
	Boron	ppm	ASTM D5185m	0	0	3	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	0
	Molybdenum	ppm	ASTM D5185m	60	58	59	64
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	954	925	1044
	Calcium	ppm	ASTM D5185m	1070	1105	1115	1088
	Phosphorus	ppm	ASTM D5185m	1150	1025	1010	1103
	Zinc	ppm	ASTM D5185m		1182	1163	1314
	Sulfur	ppm	ASTM D5185m	2060	3512	3196	2958
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	15.2	15.5
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.6	8.7





Sample No.

: GFL0108541 Lab Number : 06178369 Unique Number : 11029695 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024 **Tested** : 14 May 2024

Diagnosed

Certificate L2367 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)

N14985 Tieman Ave Thorp, WI

US 54771 Contact: Andy Kane akane@gflenv.com T: (715)202-3420

: 14 May 2024 - Wes Davis