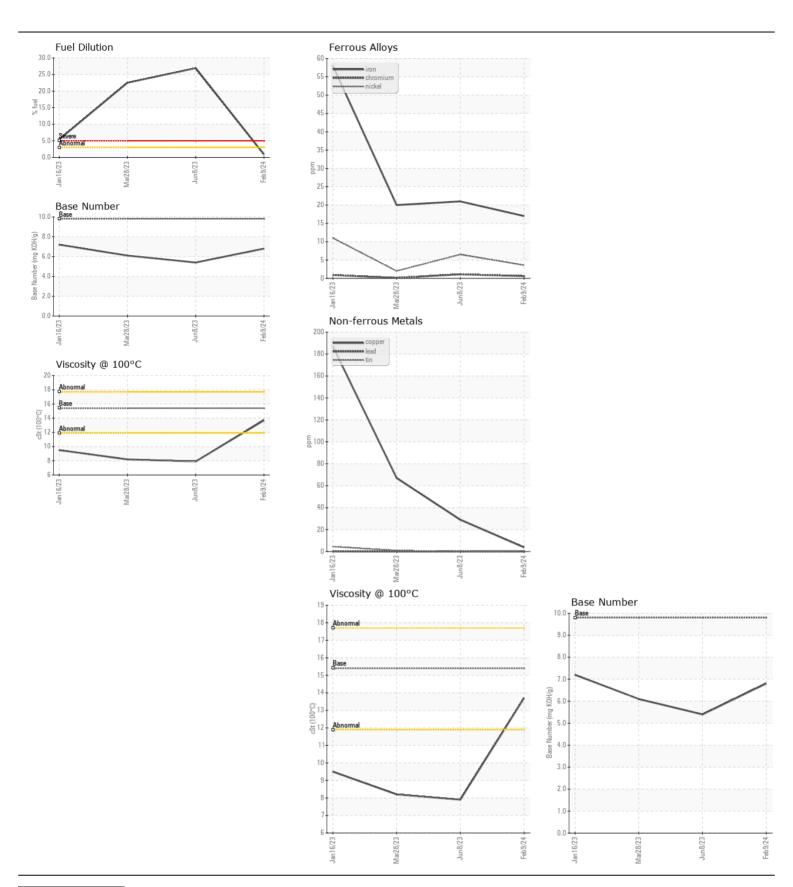
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id 913066 Component Diesel Engine

PETRO CANADA DURON SHP	15W40 (11 (GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMILITERATION	Sample Number	00	Client Info		GFL0107467	,	GFL0072491
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Feb 2024	08 Jun 2023	28 Mar 2023
	Machine Age	hrs	Client Info		3479	1776	1199
	Oil Age	hrs	Client Info		601	598	550
	Filter Age	hrs	Client Info		601	598	550
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>120	17	21	20
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>5	4	6	2
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	3	<1	<1
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m		4	29	67
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	9
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	0	0
	Fuel	%		>3.0	0.9	26.9	22.5
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	19.1	18.4
	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 NEG	NORML
	Emulsified Water	Scalar	*Visual	>0.2	NEG	INEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		18	3	11
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		66	42	50
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		865	666	688
	Calcium	ppm	ASTM D5185m		1107	789	886
	Phosphorus	ppm	ASTM D5185m		870	684	680
	Zinc	ppm	ASTM D5185m		1174	853	851
	Sulfur	ppm	ASTM D5185m		2839	1936	1730
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	15.6	14.4
	Base Number (BN)				6.8	5.4	6.1
	Visc @ 100°C	cSt	ASTM D445	15.4	13.7	7.9	▲ 8.2







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: GFL0107467 Lab Number : 06089242 Unique Number: 10876687

Received **Tested** Diagnosed

Test Package: FLEET (Additional Tests: PercentFuel)

: 15 Feb 2024 : 15 Feb 2024 - Wes Davis

: 14 Feb 2024

1215 Klement St. Fort Atkinson, WI

GFL Environmental - 912 - Fort Atkinson HC

US 53538 Contact: LEONARD KOZLEUCHAR leonard.kozleuchar@gflenv.com

T: (262)210-6528

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: