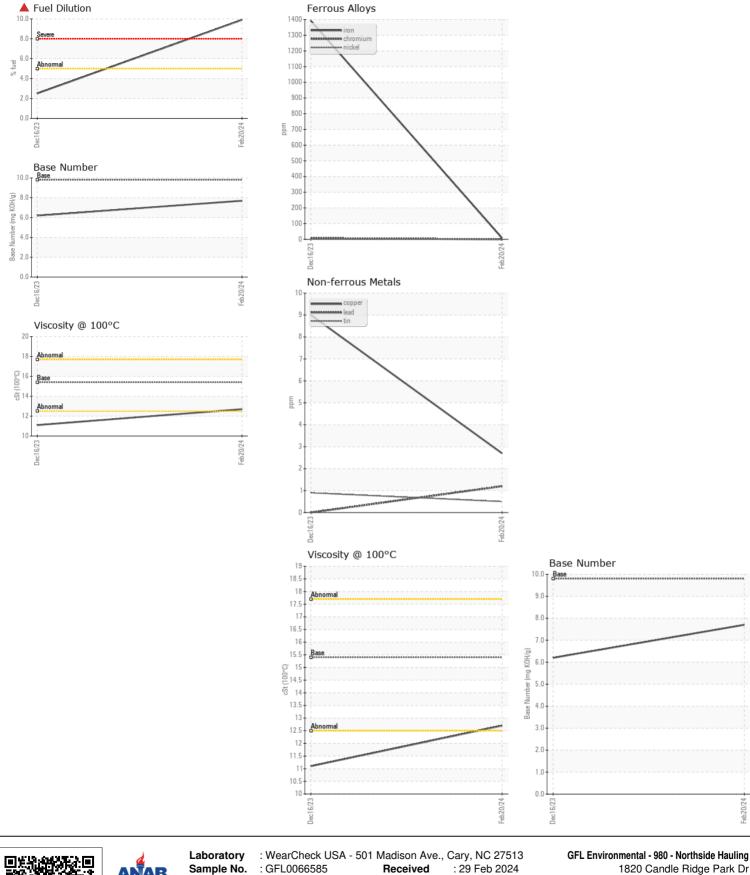
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

Machine Io

514050 PETERBILT 567

Component Diesel Engine							
PETRO CANADA DURON SHP 15W40 (GAL)	•						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	Littleyton	GFL0066585	GFL0066601	,
	Sample Date		Client Info		20 Feb 2024	16 Dec 2023	
	Machine Age	mls	Client Info		0	0	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>110	9	▲ 1391	
WEAR	Chromium	ppm	ASTM D5185m		0	<u> 8</u>	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		5	<u> </u>	
	Lead	ppm	ASTM D5185m		1	0	
	Copper	ppm	ASTM D5185m	-	3	9	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	9	<u>^</u> 28	
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		19	23	
	Fuel	%	ASTM D3524		▲ 9.9	<u>^</u> 2.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	% A b a /ava	*ASTM D7844		0.1	0.1	
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	6.1	6.8 16.7	
	Silt		*Visual		15.5 NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor		*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	0	9	73	
	Barium	ppm	ASTM D5185m	0	0	3	
	Molybdenum	ppm	ASTM D5185m		45	2	
	Manganese	ppm	ASTM D5185m		<1	8	
	Magnesium	ppm	ASTM D5185m		220	456	
	Calcium	ppm	ASTM D5185m		2604	819	
	Phosphorus	ppm	ASTM D5185m		1076	720	
	Zinc	ppm	ASTM D5185m		1479	534	
	Sulfur	ppm	ASTM D5185m		3832	9708	
	Oxidation	Abs/.1mm	*ASTM D7414		9.0	10.9	
	Base Number (BN)		ASTM D2896		7.7	6.2	
	Visc @ 100°C	cSt	ASTM D445	15.4	12.7	11.1	





Sample No.

: GFL0066585 Lab Number : 06104157

Tested Unique Number : 10902387 Diagnosed

: 04 Mar 2024 : 04 Mar 2024 - Wes Davis

Houston, TX US 77073 Contact: Edwin Collins

Test Package: FLEET (Additional Tests: PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369. ecollins@gflenv.com T:

* - 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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