WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

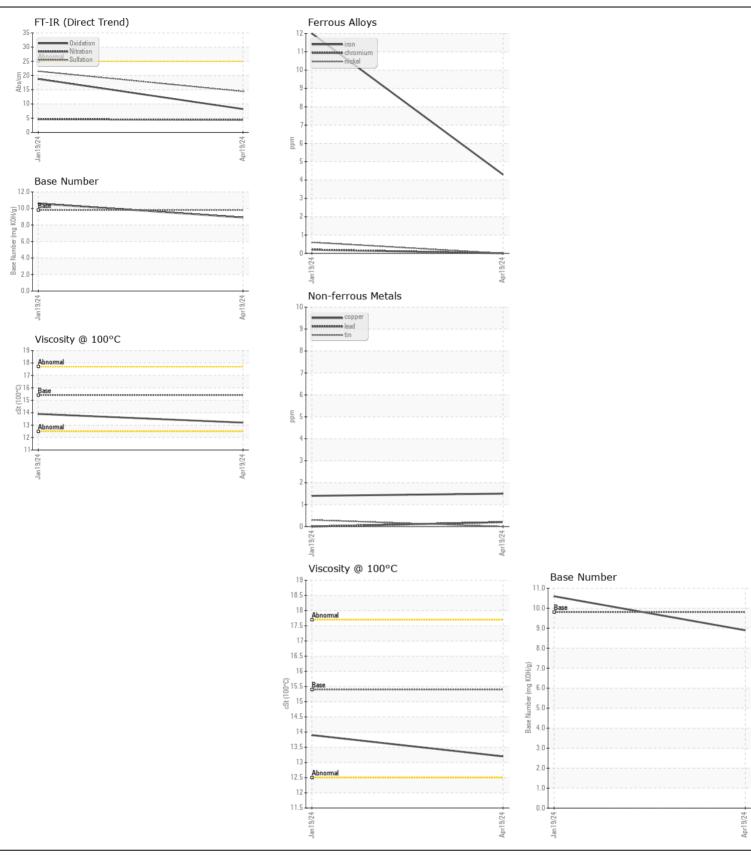
Machine Id

## **523092 FREIGHTLINER CASCADIA 125**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0115316		
	Sample Date		Client Info		19 Apr 2024		
	Machine Age	hrs	Client Info		0	3	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>80	4	12	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	0	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		2	2	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>150	2	1	
	Tin	ppm	ASTM D5185m	>5	0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	11	10	
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m		<1	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0	0	
	Nitration	Abs/cm	*ASTM D7624	>20	4.4	4.6	
	Sulfation	Abs/.1mm	*ASTM D7415		14.4	21.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	THICK	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	
LOID CONDITION	Boron	ppm	ASTM D5185m	0	10	68	
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	<1	
	Molybdenum	ppm	ASTM D5185m		52	36	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		86	469	
	Calcium	ppm	ASTM D5185m		2185	1453	
	Phosphorus	ppm	ASTM D5185m		1001	679	
	Zinc	ppm	ASTM D5185m		1127	808	
	Sulfur	ppm	ASTM D5185m		3368	2159	
	Oxidation	Abs/.1mm	*ASTM D7414		8.2	18.8	
	Base Number (BN)		ASTM D2896		8.9	10.6	
	Visc @ 100°C	cSt	ASTM D445		13.2	13.9	





Certificate L2367

Laboratory Sample No.

: GFL0115316 Lab Number : 06175282 Unique Number : 11021335

Test Package : FLEET

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

: 10 May 2024 : 13 May 2024 Diagnosed : 16 May 2024 - Jonathan Hester

GFL Environmental - 980 - Northside Hauling 1820 Candle Ridge Park Dr Houston, TX

US 77073 Contact: Edwin Collins ecollins@gflenv.com

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)

T:

F: