

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **525109 FREIGHTLINER CASCADIA 125**

Diesel Engine

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

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

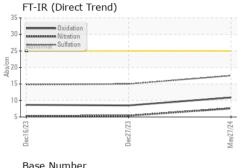
### **Fluid Condition**

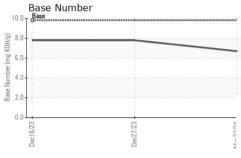
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

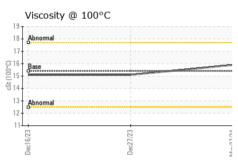
GAL)		Dec	2023	Dec2023 May20	24	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115335	GFL0066606	GFL0066599
Sample Date		Client Info		27 May 2024	27 Dec 2023	16 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	2	<1
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	1	0	0
	ppm	ASTM D5185m		6	<1	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
• •	ppm	ASTM D5185m		3	<1	1
	ppm	ASTM D5185m	>15	<1	0	<1
	ppm	ASTM D5185m		<1	0	<1
	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		0	1	1	1
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m	60	58	51	52
	ppm	ASTM D5185m		1	0	<1
-	ppm	ASTM D5185m	1010	31	15	11
	ppm	ASTM D5185m	1070	2512	2431	2395
	ppm	ASTM D5185m	1150	992	1056	1100
	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1241 3074	1301 3277	1283 3355
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	8	6	6
	ppm	ASTM D5185m	725	2	0	<1
	ppm	ASTM D5185m	>20	3	1	2
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.2	0.1	0.1
	Abs/cm	*ASTM D7624	>20	7.6	5.4	5.3
	Abs/.1mm	*ASTM D7415	>30	17.5	15.0	14.8
FLUID DEGRADA	ATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	8.5	8.7
	mg KOH/g	ASTM D2896	9.8	6.7	7.8	7.8
(Div)	99		5.0	VI.		



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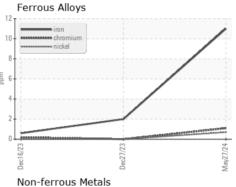


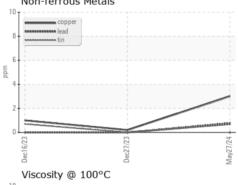


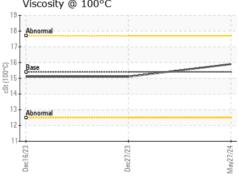
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

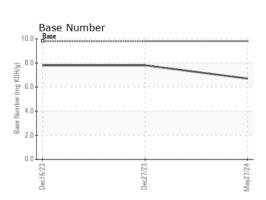
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	15.9	15.1	15.1

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06191850

Unique Number : 11048602 Test Package : FLEET

: GFL0115335

Diagnosed

Received : 28 May 2024 **Tested** : 29 May 2024

: 30 May 2024 - Sean Felton

GFL Environmental - 980 - Northside Hauling

1820 Candle Ridge Park Dr Houston, TX

US 77073

Contact: Edwin Collins ecollins@gflenv.com T:

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)

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