

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

hrs

hrs

Sample Number

Sample Date

Machine Age

Oil Age

### NORMAL

# FREIGHTLINER 10619E Component

**Diesel Engine** 

Fluid PETRO CANADA DURON SHP 15W40 (6 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

## 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.

p2015 Jul2016	Jun2017 Jan2018 Oct2019	9 Jan2021 Aug2021 Jun2022 Feb20	123 Sep2023	
method	Jun2017 Jan2018 Oct2019 limit/base	) Jan2021 Aug2021 Jun2022 Feb20 CUrrent	<sup>23</sup> Sep2023 history1	history2
,		-		history2 GFL0071820
method		current	history1	
method Client Info		current GFL0087520	history1 GFL0087470	GFL0071820

Oil Changed	Client Info		Changed	Not Changd	N/A
Sample Status			NORMAL	NORMAL	NORMAL
CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	35	24	12
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	15	10	6
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	15	8	5
Tin	ppm	ASTM D5185m	>15	2	3	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0

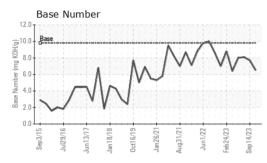
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	5	8
Barium	ppm	ASTM D5185m	0	0	44	0
Molybdenum	ppm	ASTM D5185m	60	71	60	62
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	915	841	929
Calcium	ppm	ASTM D5185m	1070	1186	1094	1212
Phosphorus	ppm	ASTM D5185m	1150	1031	903	1001
Zinc	ppm	ASTM D5185m	1270	1303	1161	1245
Sulfur	ppm	ASTM D5185m	2060	3033	2907	3479
CONTAMINAN	TS	method	limit/base	current	historv1	historv2

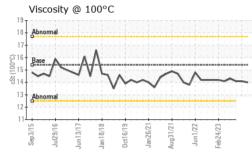
CONTAININAN	10	methou			TIISTOLA I	Thistoryz
Silicon	ppm	ASTM D5185m	>25	7	7	4
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	1	3	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.8	1.3	1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	20.0	20.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	14.9	15.7
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	6.5	7.7	8.1

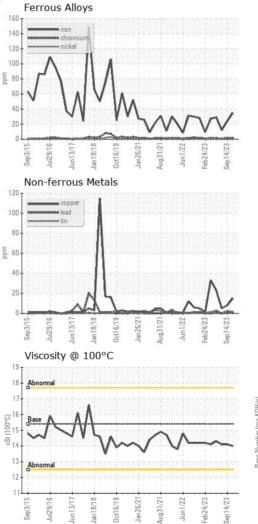


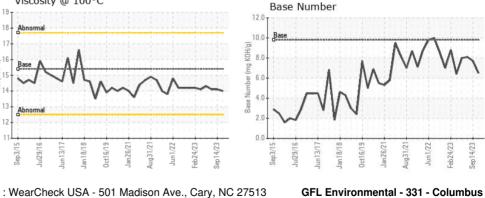
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.1	14.1
GRAPHS						





180 Ada Moore Rd Columbus, NC US 28722 Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618 (2) F: (252)617-2494



 Certificate 12367
 Test Package
 : FLEET

 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)

Received

Diagnosed

Diagnostician

: 06 Oct 2023

: 09 Oct 2023

: Wes Davis

: GFL0087520

: 05972033

Laboratory

Sample No.

Lab Number

Unique Number : 10683983

Page 2 of 2