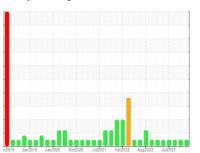


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **10884 FREIGHTLINER M2 106**

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (48 QTS)

## 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

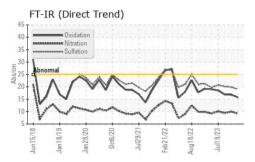
## **Fluid Condition**

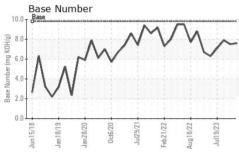
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

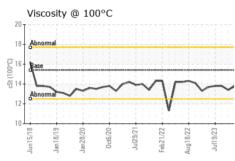
G(13)		nzoro Janzo	115 Jan2020 002020	Juliozi redzozz Augzozz	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117425	GFL0103164	GFL0094731
Sample Date		Client Info		03 Jun 2024	23 Jan 2024	11 Oct 2023
Machine Age	hrs	Client Info		18151	17328	16665
Oil Age	hrs	Client Info		0	0	16665
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	8	19	11
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	6	10	5
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	<1	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	8
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	54	64	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	841	961	870
Calcium	ppm	ASTM D5185m	1070	1049	1093	1086
Phosphorus	ppm	ASTM D5185m	1150	987	1003	1001
Zinc	ppm	ASTM D5185m	1270	1146	1259	1226
Sulfur	ppm	ASTM D5185m	2060	3120	3094	2838
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	4
Sodium	ppm	ASTM D5185m		16	30	21
Potassium	ppm	ASTM D5185m	>20	8	16	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.9	20.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	16.8	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	7.5	7.9
(=)	39					



## **OIL ANALYSIS REPORT**



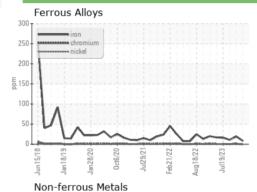


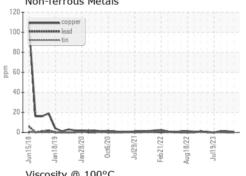


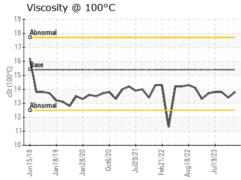
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

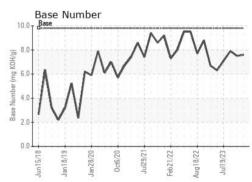
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	13.8

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11061930

: GFL0117425 Lab Number : 06199807

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05 Jun 2024 Received

**Tested** : 05 Jun 2024 Diagnosed : 05 Jun 2024 - Wes Davis

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive Garner, NC

US 27529 Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

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)

Report Id: GFL001 [WUSCAR] 06199807 (Generated: 06/05/2024 17:56:19) Rev: 1

Submitted By: aka Keith - Ronald Gregory

F: (919)662-7130