

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



10884 FREIGHTLINER M2 106

Component

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

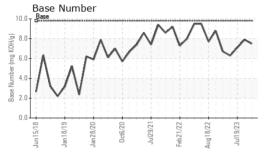
Fluid Condition

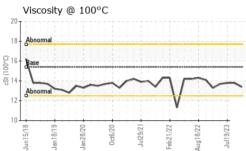
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

•		n2018 Jan2	019 Jan2020 Oct2020	Jul2021 Feb2022 Aug2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103164	GFL0094731	GFL0089339
Sample Date		Client Info		23 Jan 2024	11 Oct 2023	19 Jul 2023
Machine Age	hrs	Client Info		17328	16665	16104
Oil Age	hrs	Client Info		0	16665	0
Oil Changed		Client Info		Changed	N/A	Not Changd
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		NEG	NEG	NEG
Glycol		WC Method	7 0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
		ASTM D5185m	>75	19	11	16
Iron Chromium	ppm	ASTM D5185m		19 <1	<1	<1
Nickel	ppm	ASTM D5185m	>5 >4	<1 <1		0
	ppm				<1 0	
Titanium Silver	ppm	ASTM D5185m		<1		0
	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m		10	5	5
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m		1	1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
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	2	8	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	57	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	961	870	1006
Calcium	ppm	ASTM D5185m	1070	1093	1086	1140
Phosphorus	ppm	ASTM D5185m	1150	1003	1001	1078
Zinc	ppm	ASTM D5185m	1270	1259	1226	1344
Sulfur	ppm	ASTM D5185m	2060	3094	2838	3688
CONTAMINANTS method limit/base current history1 history2						history2
Silicon	ppm	ASTM D5185m	>25	9	4	4
Sodium	ppm	ASTM D5185m		30	21	18
Potassium	ppm	ASTM D5185m	>20	16	5	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624		10.0	9.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415		19.9	20.1	20.7
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.9	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.9	7.1
Dasc Number (DIV)	my Kony	7.0 TW D2030	0.0	7.5	1.0	7 . 1



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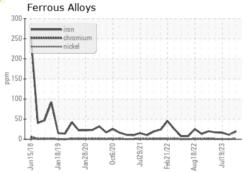


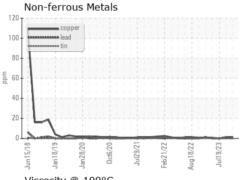


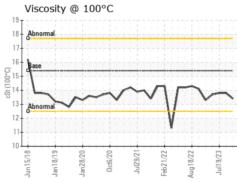
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

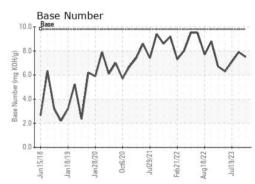
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.8	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number

: GFL0103164 : 06069354 : 10846031

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 24 Jan 2024 Diagnosed : 24 Jan 2024

Diagnostician : 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] 06069354 (Generated: 01/24/2024 16:52:28) Rev: 1

F: (919)662-7130