

[811325] FREIGHTLINER 501820 T101

Front Diesel Engine

PETRO CANADA 10W30 (30 LTR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0812469	WC0711588	WC049504
	Sample Date		Client Info		01 May 2024	13 May 2023	16 Apr 202
	Machine Age	kms	Client Info		37191	35135	31364
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>90	3	3	3
	Chromium	ppm	ASTM D5185(m)		0	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	<1
	Silver	ppm	ASTM D5185(m)		0	0	<1
	Aluminum	ppm	ASTM D5185(m)		<1	<1	<1
	Lead	ppm	ASTM D5185(m)		2	3	2
	Copper	ppm	ASTM D5185(m)		7	8	7
	Tin	ppm	ASTM D5185(m)		0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	VLITE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	<1	3	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	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
	Soot %	%	ASTM D7844*	>6	0.2	0.1	0
	Nitration	Abs/cm	ASTM D7624*	>20	5.5	5.5	5.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	17.7	18.3
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	VLITE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	1	<1
Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		1	<1	3
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		57	57	51
	Manganese	ppm	ASTM D5185(m)		0	<1	<1
	Magnesium	ppm	ASTM D5185(m)		946	947	500
	Calcium	ppm	ASTM D5185(m)		1142	1136	1611
	Phosphorus	ppm	ASTM D5185(m)		1048	1130	1079
	Zinc	ppm	ASTM D5185(m)		1209	1214	1216
	0.16.11				0700	0740	0000

Sulfur

Oxidation

ppm ASTM D5185(m)

Visc @ 100°C cSt ASTM D7279(m)

Abs/.1mm ASTM D7414* >25

13.3

13.9

2742 2960

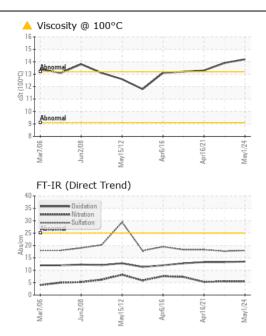
13.3

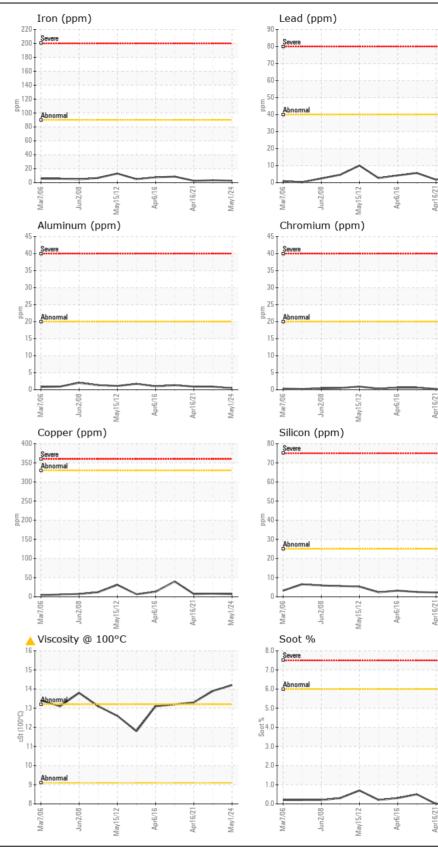
13.3

2736

13.5

14.2





CITY OF MISSISSAUGA FIRE DEPT Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0812469 Received 7535 NINTH LINE : 10 Jun 2024 Lab Number : 02640626 Tested MISSISSAUGA, ON : 10 Jun 2024 ISO 17025:2017 Accredited Laboratory : 10 Jun 2024 - Kevin Marson CA L5N 7C3 Unique Number : 5789788 Diagnosed Test Package : MOB 1 (Additional Tests: Visual) Contact: Nick Specic To discuss this sample report, contact Customer Service at 1-800-268-2131. nicolas.specic@mississauga.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)615-3753 F: (905)615-4523 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Nick Specic - CIT15MIS Page 2 of 2

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