

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id FREIGHTLINER 2119 Component

## Diesel Engine

MOBIL 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0949243	WC0917266	WC0893785
	Sample Date		Client Info		12 Jun 2024	12 Apr 2024	31 Jan 2024
	Machine Age	mls	Client Info		404545	0	377967
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	29	25	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	2	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	2	0	2
	Lead	ppm	ASTM D5185m	>30	6	11	5
	Copper	ppm	ASTM D5185m	>150	5	2	<1
	Tin	ppm	ASTM D5185m		1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	2	2
	Potassium	ppm	ASTM D5185m		6	0	<1
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	0.8	0.4
	Nitration	Abs/cm	*ASTM D7624		10.6	10.0	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	22.3	21.1
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	3	<1
	Boron	ppm	ASTM D5185m		8	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	58	60
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		923	920	969
	Calcium	ppm	ASTM D5185m		1188	1119	1037
	Phosphorus	ppm	ASTM D5185m		1117	1007	1076
	Zinc	ppm	ASTM D5185m		1297	1155	1265
	Sulfur	ppm	ASTM D5185m		2983	3141	2927
	Oxidation	Abs/.1mm	*ASTM D510511	>25	19.4	19.5	18.7
	Base Number (BN)			~	7.6	7.2	8.2
		ing itoniy			1.0	10.0	10.0

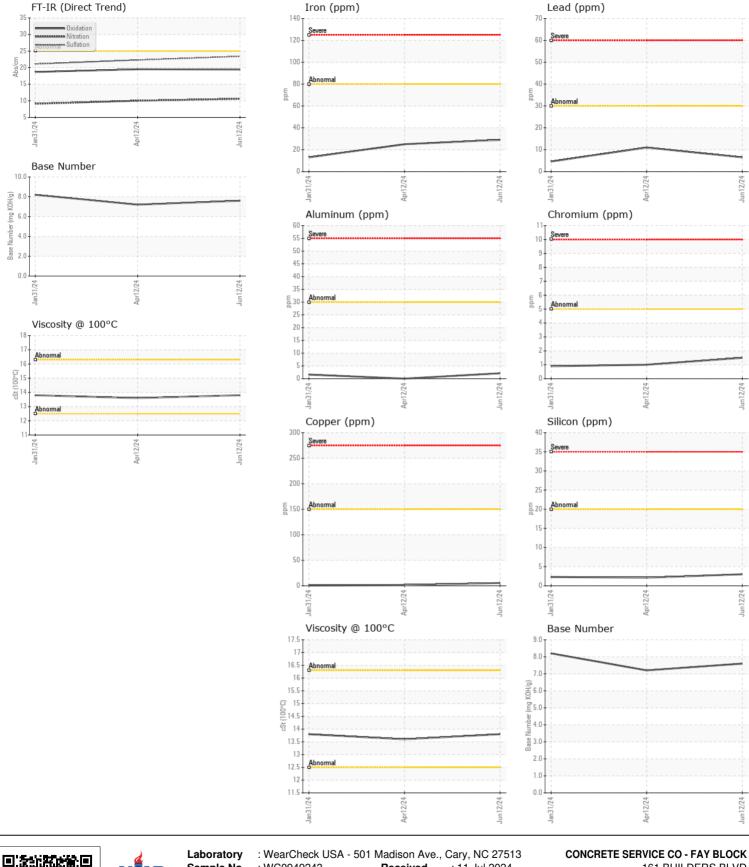
Visc @ 100°C cSt

ASTM D445

13.6

13.8

13.8



Sample No. : WC0949243 Received 161 BUILDERS BLVD : 11 Jul 2024 Lab Number : 06233013 Tested FAYETTEVILLE, NC : 11 Jul 2024 Unique Number : 11116506 : 11 Jul 2024 - Wes Davis US 28301 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: BRYAN VANNIMAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bryanvanniman@fayblock.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)326-9198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: BRYAN VANNIMAN - CONFAY Page 2 of 2