

## Machine Id FREIGHTLINER 10462 Component

## 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0742280	WC0594943	WC05198014
	Sample Date		Client Info		04 Apr 2024	19 Jul 2021	07 Mar 2021
	Machine Age	mls	Client Info		462355	309366	0
	Oil Age	mls	Client Info		0	40000	0
	Filter Age	mls	Client Info		0	40000	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	77	40	25
	Chromium	ppm	ASTM D5185m		2	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		22	14	7
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>50	3	6	5
	Tin	ppm	ASTM D5185m	>6	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6	4	4
	Potassium	ppm	ASTM D5185m		4	13	0
There is no indication of any contamination in the oil.	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	>3	0.6	1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	11.6	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	25.6	22.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
						NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE NONE	NONE NONE	NONE NONE	NONE
	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NONE NORML	NONE NONE NORML	NONE NORML
	Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NONE NORML NORML	NONE NONE NORML NORML	NONE NONE NORML NORML	NONE NORML NORML
	Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual	NONE NORML	NONE NONE NORML	NONE NONE NORML	NONE NORML
FLUID CONDITION	Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML >0.2	NONE NONE NORML NORML	NONE NONE NORML NORML	NONE NORML NORML
FLUID CONDITION	Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NONE NORML NORML >0.2	NONE NONE NORML NORML NEG	NONE NONE NORML NORML NEG	NONE NORML NORML NEG
The BN result indicates that there is suitable alkalinity remaining in the	Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2	NONE NONE NORML NORML NEG 2	NONE NONE NORML NEG 2	NONE NORML NORML NEG 2
	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2 10	NONE NORML NORML NEG 2 6	NONE NORML NORML NEG 2 4
The BN result indicates that there is suitable alkalinity remaining in the	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2 10 0	NONE NORML NORML NEG 2 6 0	NONE NORML NEG 2 4 0
The BN result indicates that there is suitable alkalinity remaining in the	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2 10 0 63 1 989	NONE NORML NORML NEG 2 6 0 76	NONE NORML NEG 2 4 0 66 <1 1011
The BN result indicates that there is suitable alkalinity remaining in the	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2 10 0 63 1 989 1115	NONE NORML NORML NEG 2 6 0 76 <1 954 1186	NONE NORML NEG 2 4 0 66 <1 1011 1258
The BN result indicates that there is suitable alkalinity remaining in the	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2 10 0 63 1 989	NONE NORML NORML NEG 2 6 0 76 <1 954	NONE NORML NEG 2 4 0 66 <1 1011

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm \*ASTM D7414 >25

ASTM D445

2369

21.2

7.2

13.8

2692

17.6

8.5

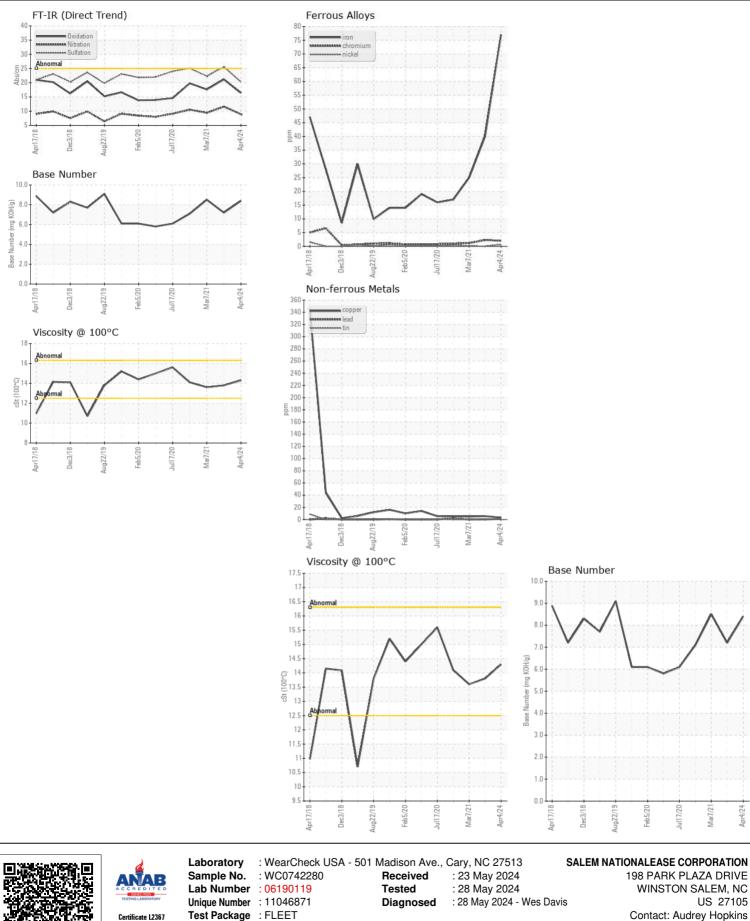
13.6

3465

16.4

8.4

14.3



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)

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