WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

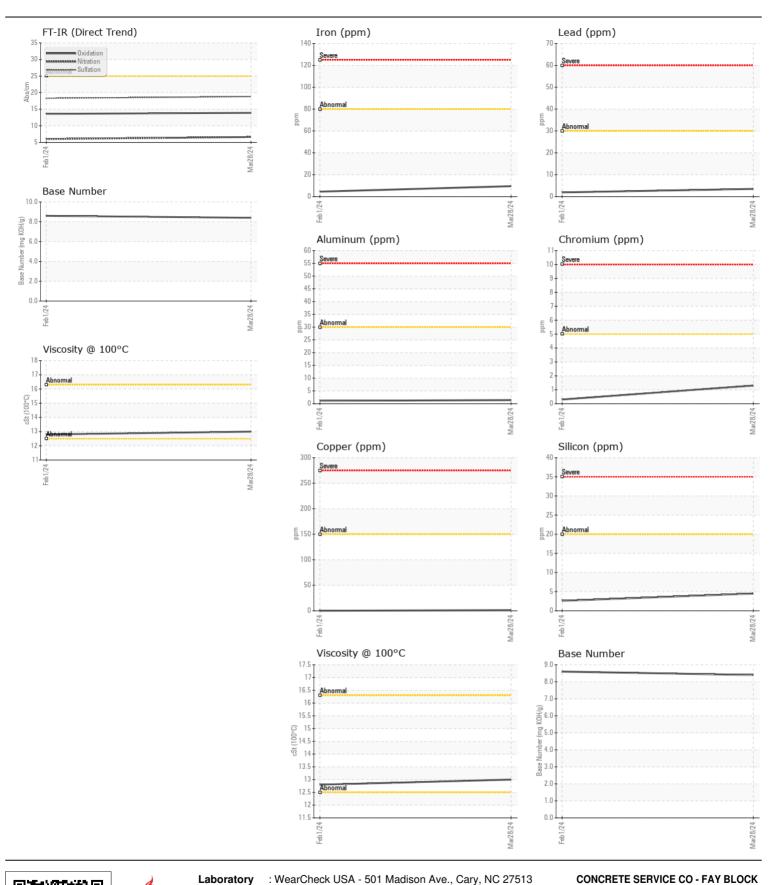
FREIGHTLINER 2131

Component
Diesel Engine

MOBIL 15W40 (--- GAL)

DECOMMENDATION							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0917325	WC0893810	
	Sample Date	mlo	Client Info		28 Mar 2024	01 Feb 2024	
	Machine Age	mls	Client Info		312916	303532	
	Oil Age	mls mls	Client Info		0	0	
	Filter Age Oil Changed	11115	Client Info			Changed	
	Filter Changed		Client Info		Changed Changed	Changed	
	Sample Status		Client inio		NORMAL	NORMAL	
					·····		
WEAR	Iron	ppm	ASTM D5185m	>80	10	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1	<1	
	Nickel	ppm	ASTM D5185m	>2	1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>30	1	1	
	Lead	ppm	ASTM D5185m	>30	4	2	
	Copper	ppm	ASTM D5185m	>150	1	0	
	Tin	ppm	ASTM D5185m	>5	2	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 20	A	2	
CONTAMINATION	Potassium	ppm	ASTM D5165III		4 2	3	
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	\ 3	0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.0	
	Sulfation	Abs/.1mm	*ASTM D7415		18.8	18.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>118	0	<1	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	2	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		58	57	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		850	929	
	Calcium	ppm	ASTM D5185m		1068	997	
	Phosphorus	ppm	ASTM D5185m		1029	1034	
	Zinc	ppm	ASTM D5185m		1152	1199	
	Sulfur	ppm	ASTM D5185m	0.5	3343	2916	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.6	
	Base Number (BN)		ASTM D2896		8.4	8.6	
	Visc @ 100°C	cSt	ASTM D445		13.0	12.8	

Contact/Location: BRYAN VANNIMAN - CONFAY





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0917325 Lab Number : 06152786

Unique Number: 10982864

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 18 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

161 BUILDERS BLVD FAYETTEVILLE, NC US 28301

Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com T: (800)326-9198

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)