WEAR CONTAMINATION **FLUID CONDITION**

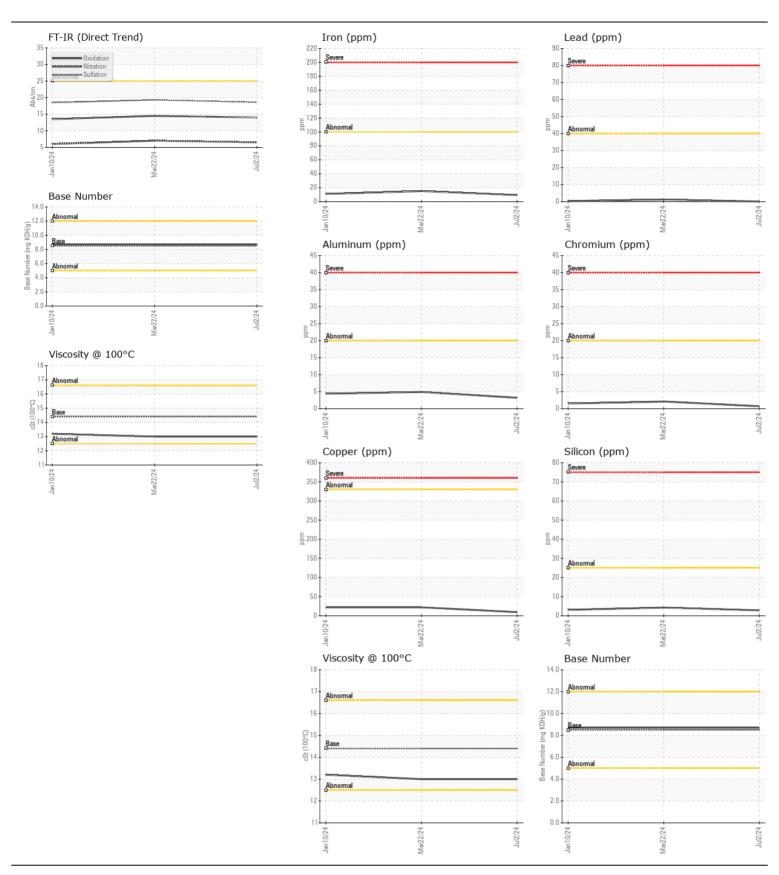
NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER 1243

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0949295	WC0917313	WC087883
	Sample Date		Client Info		02 Jul 2024	22 Mar 2024	10 Jan 202
	Machine Age	mls	Client Info		97673	91900	80938
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAI
WEAR	Iron	nnm	ASTM D5185m	>100	9	15	11
WLAN	Chromium	ppm	ASTM D5185m		<1	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	2	<1
	Titanium	ppm	ASTM D5185m	24	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		3	5	4
	Lead	ppm	ASTM D5185m		0	1	<1
	Copper	ppm	ASTM D5185m		10	22	22
	Tin	ppm	ASTM D5185m		<1	2	2
	Vanadium	ppm	ASTM D5185m		0	- <1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
NONT A MINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	10	10
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.0	6.0
	Sulfation	Abs/.1mm	*ASTM D7415		18.6	19.3	18.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE NORML	NONE NORML	NONE NORML	NONE
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
<u></u>		Scalai	Visuai	70.2		INLO	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	<1	1
	Boron	ppm	ASTM D5185m	250	5	<1	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	100	58	62	55
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		924	937	992
	Calcium	ppm	ASTM D5185m		1105	1061	1046
	Phosphorus	ppm	ASTM D5185m		1001	1067	1044
	Zinc	ppm	ASTM D5185m		1224	1212	1205
	Sulfur	ppm	ASTM D5185m	4250	2946	3169	3004
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	14.5	13.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	8.7	8.7
	Visc @ 100°C		ASTM D445			13.0	13.2





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0949295 Lab Number : 06241398

Unique Number : 11130232

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

Received

: 19 Jul 2024

: 20 Jul 2024

: 20 Jul 2024 - Wes Davis

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. **CONCRETE SERVICE CO - FAY BLOCK**

161 BUILDERS BLVD FAYETTEVILLE, NC

US 28301

Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com

T: (800)326-9198

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)