WEAR CONTAMINATION FLUID CONDITION

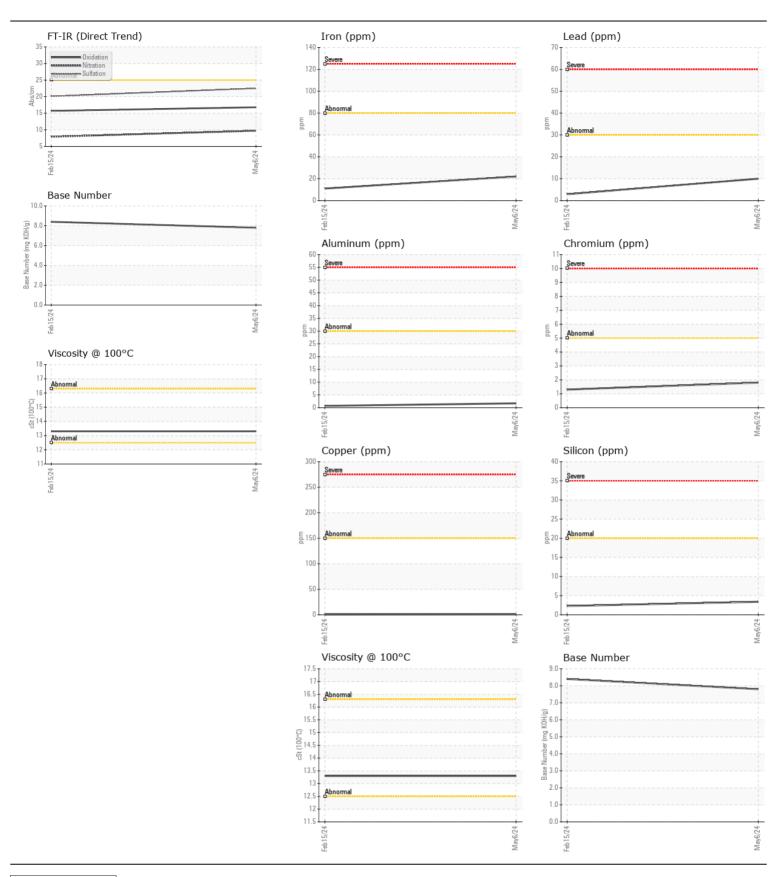
NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER TRUCK 2117

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
	Sample Number		Client Info		WC0917104	WC0906267	
Resample at the next service interval to monitor.	Sample Date		Client Info		06 May 2024	15 Feb 2024	
	Machine Age	mls	Client Info		457731	443202	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>80	22	11	
	Chromium	ppm	ASTM D5185m		2	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	72	0	<1	
	Silver	ppm	ASTM D5185m	\3	0	0	
	Aluminum	ppm	ASTM D5185m		2	<1	
	Lead	ppm	ASTM D5185m		10	3	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTANUNATION	0.11.		AOTA DE 405		• • • • • • • • • • • • • • • • • • • •		
ONTAMINATION	Silicon	ppm	ASTM D5185m		3	2	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		1.5	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	7.9	
	Sulfation	Abs/.1mm	*ASTM D7415		22.5	20.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual *Visual	NORML	NORML	NORML NORML	
		scalar		NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>118	<1	3	
	Boron	ppm	ASTM D5185m		5	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	
	Molybdenum	ppm	ASTM D5185m		64	56	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		968	919	
	Calcium	ppm	ASTM D5185m		1084	1064	
	Phosphorus	ppm	ASTM D5185m		1075	923	
	Zinc	ppm	ASTM D5185m		1266	1138	
	Sulfur	ppm	ASTM D5185m		2831	3306	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.7	
	Base Number (BN)	mg KOH/g	ASTM D2896		7.8	8.4	
	Visc @ 100°C	cSt	ASTM D445		13.3	13.3	







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0917104 Lab Number : 06214216 Unique Number : 11087080

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

Received

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

: 19 Jun 2024

CONCRETE SERVICE CO - FAY BLOCK 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)