

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL

Machine Id FREIGHTLINER 2122 Component Diesel Engine

MOBIL 15W40 (--- GAL)

RECOMMENDATION The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0917194	WC0906155	WC08938
	Sample Date		Client Info		31 May 2024		23 Jan 202
	Machine Age	mls	Client Info		348142	335364	327237
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changeo
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				ABNORMAL	NORMAL	ABNORM
WEAR	Iron	ppm	ASTM D5185m	>80	12	4	7
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	1
	Lead	ppm	ASTM D5185m		5	4	3
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m	20	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
		····	violaa	····		HOHL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	3	4
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	0
	Fuel	%	ASTM D3524	>5	5 .1	<1.0	4 .1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.4	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.2	18.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
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FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	0	<1	1
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		1	0	5
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		59	60	57
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		922	1018	905
	Calcium	ppm	ASTM D5185m		1055	1148	A 1023
	Phosphorus	ppm	ASTM D5185m		1008	1104	1014
	Zinc	ppm	ASTM D5185m		1199	1286	1183
	Sulfur	ppm	ASTM D5185m		2731	3792	2841
	Outstation	Also / document	*AOTM D7444	05	40.4	10.0	

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

13.3

8.5

12.4

13.7

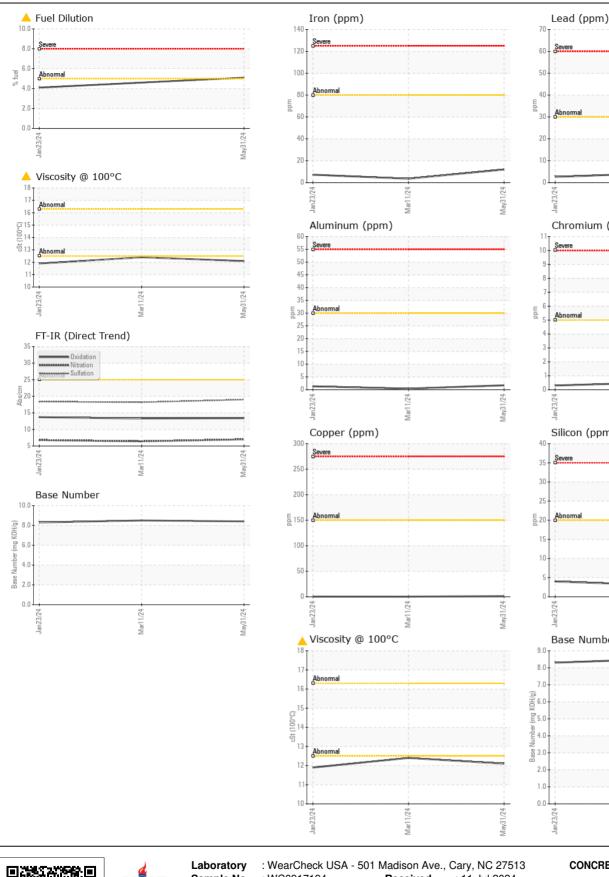
8.3

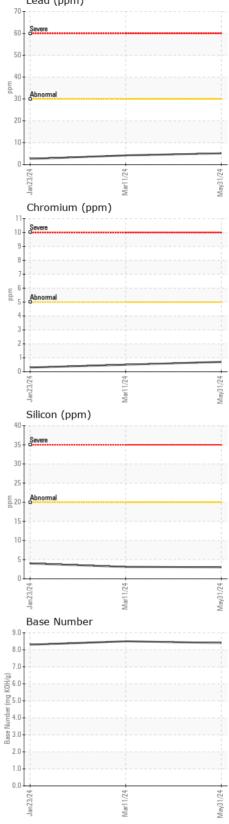
11.9

13.4

8.4

12.1





CONCRETE SERVICE CO - FAY BLOCK Sample No. Received 161 BUILDERS BLVD : WC0917194 : 11 Jul 2024 武 Lab Number : 06232994 : 12 Jul 2024 FAYETTEVILLE, NC Tested US 28301 Unique Number : 11116487 Diagnosed : 12 Jul 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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