WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

## FREIGHTLINER CASCADIA 1224

Diesel Engine

MOBIL 15W40 (--- GAL)

MOBIL 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RESSIMILATION	Sample Number		Client Info		WC0909281	WC0893872	
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Apr 2024	25 Jan 2024	
	Machine Age	mls	Client Info		258721	735304	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed	11110	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	
					·····		
WEAR	Iron	ppm	ASTM D5185m	>80	0	<1	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		<1	<1	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		- <1	0	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium		ASTM D5185m	/5	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
				_			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	2	
30117 tillin 1711 1311	Potassium	ppm	ASTM D5185m		0	0	
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624		6.1	5.8	
	Sulfation	Abs/.1mm	*ASTM D7415		17.9	17.9	
	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		*Visual	>0.2	NEG	NEG	
	Liliuisilleu vvalei	Scalai	Visuai	>0.2		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	<1	
	Boron	ppm	ASTM D5185m		0	4	
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		56	58	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		945	930	
	Calcium	ppm	ASTM D5185m		1071	1033	
	Phosphorus	ppm	ASTM D5185m		1071	1048	
	Zinc	ppm	ASTM D5185m		1235	1216	
	Sulfur	ppm	ASTM D5185m		3593	2987	
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	13.8	14.0	
	Base Number (BN)			>20	8.9	8.6	
	Visc @ 100°C		ASTM D2696 ASTM D445				
	VISC @ 100°C	cSt	A3 1 W D445	,	13.3	13.2	





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0909281 Lab Number : 06197256

Received **Tested** Unique Number : 11059379

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

: 03 Jun 2024 : 03 Jun 2024 : 03 Jun 2024 - Wes Davis

**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)

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