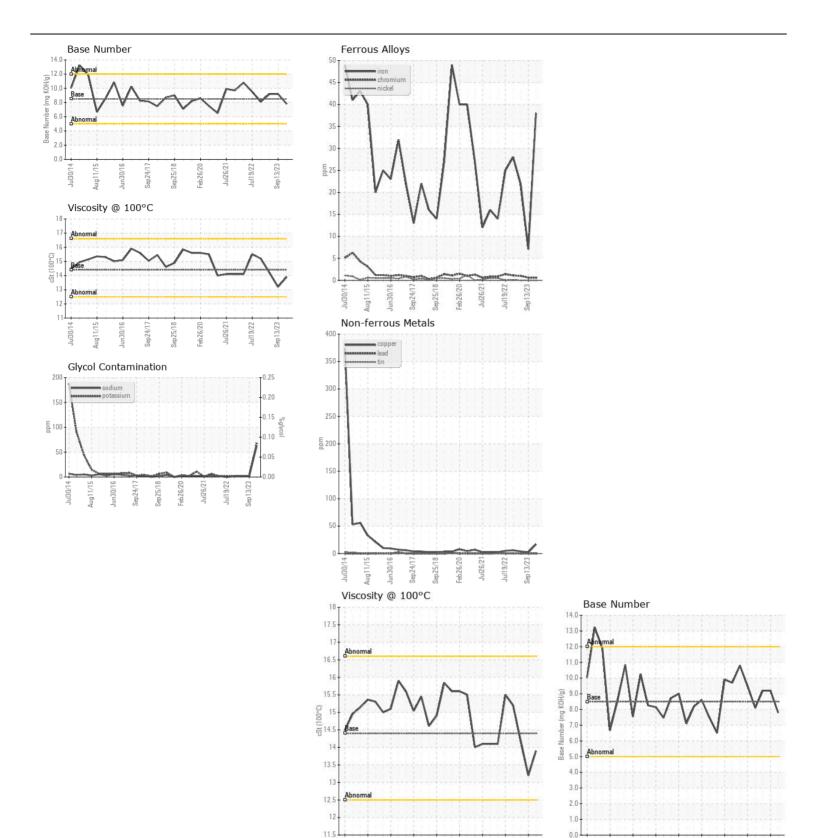
**WEAR** CONTAMINATION **FLUID CONDITION** 

NORMAL **ABNORMAL ABNORMAL** 

## **FREIGHTLINER 45779**

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (38 QTS)							
	Toot	UOM	Mathad	Limit/Alan	Current	Lliotomat	Lliotom
RECOMMENDATION	Test Sample Number	UOIVI	Method Client Info	Limit/Abn	Current WC0875840	History1 WC0852281	History2 WC071788
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		28 Dec 2023	1	08 May 202
	Machine Age	mls	Client Info		529835	520537	508999
	Oil Age		Client Info		0	0	0
	Filter Age	mls mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status		Ollerit IIIIO		ABNORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ACTM DE10Em	. 200	20	7	22
WEAR	Iron	ppm	ASTM D5185m		38	7	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	<1	6
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		17	2	4
	Tin	ppm	ASTM D5185m	>6	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6	6	5
	Potassium	ppm	ASTM D5185m	>20	<b>△</b> 67	2	2
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.6	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.6	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.0	21.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
TI LUD CONDITION	0 - 45		AOTA DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<u>▲</u> 63	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		361	7	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	92	65	64
	Manganese	ppm	ASTM D5185m	4=0	0	<1	<1
	Magnesium	ppm	ASTM D5185m		429	1027	975
	Calcium	ppm	ASTM D5185m	3000	1272	1148	1107
	Phosphorus	ppm	ASTM D5185m		1042	1101	1014
	Zinc	ppm	ASTM D5185m	1350	1214	1335	1252
	Sulfur	ppm	ASTM D5185m		3402	3797	3182
	Oxidation	Abs/.1mm	*ASTM D7414		15.5	13.6	16.4
	Base Number (BN)	0 0	ASTM D2896		7.8	9.2	9.2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.2	14.2







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0875840 : 06055784 : 10821733

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024

Sep13/23.

: 10 Jan 2024 Diagnosed : Jonathan Hester Diagnostician

Test Package : FLEET ( Additional Tests: Glycol ) 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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