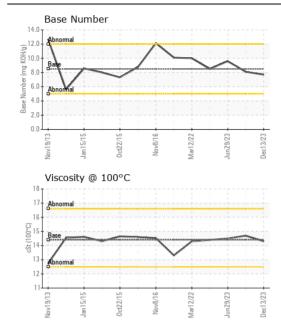
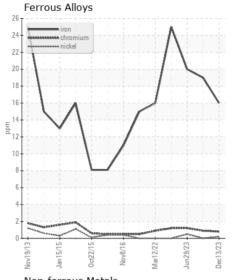
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

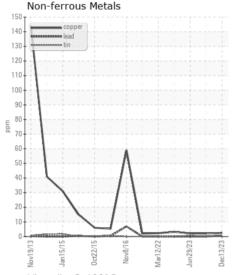
FREIGHTLINER 45753

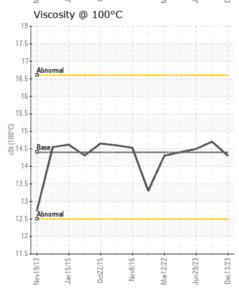
Component
Diesel Engine

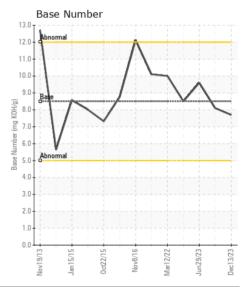
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIIII/ADII	WC0841985	WC0842198	WC074240
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		13 Dec 2023	17 Sep 2023	29 Jun 202
	Machine Age	mls	Client Info		564922	0	506780
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>65	16	19	20
	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm		>3	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	9	7
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m	>180	2	2	2
	Tin	ppm	ASTM D5185m	>8	<1	<1	<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	>15	7	6	5
	Potassium	ppm	ASTM D5185m	>20	3	3	5
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	1.2	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.1	9.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	23.0	21.8
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	0	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	4	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	64	61	72
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1016	958	1147
	Calcium	ppm	ASTM D5185m		1065	1045	1264
	Phosphorus	ppm	ASTM D5185m		1064	992	1187
	Zinc	ppm	ASTM D5185m		1350	1257	1495
	Sulfur	ppm Abo/1mm	ASTM D5185m		2905	2740	4288
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		18.4 7.7	18.3 8.1	17.5
	Dase Nulliber (BN)	THY NUT/9	49 LIVI D5090	0.0	1.1	0.1	9.6













Certificate L2367

Report Id: SALWIN [WUSCAR] 06064884 (Generated: 01/20/2024 02:57:46) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WC0841985 : 06064884 : 10836266

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024

: Wes Davis Diagnostician

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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