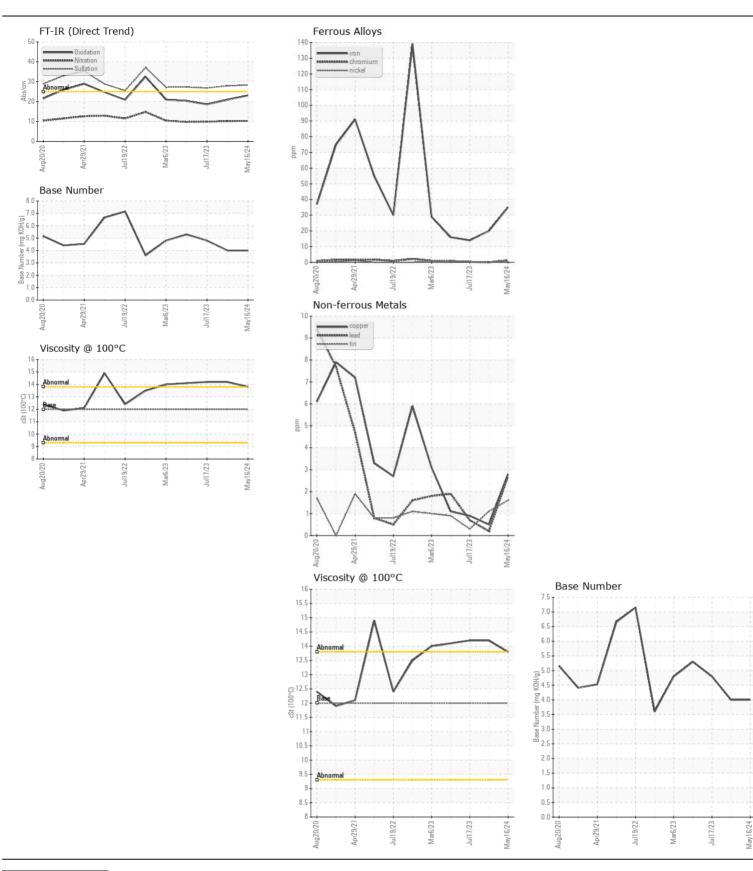
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id VOLVO 186 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009169	LW0007819	LW0007412
	Sample Date		Client Info		16 May 2024	21 Sep 2023	17 Jul 2023
	Machine Age	mls	Client Info		1233181	1144000	1122000
	Oil Age	mls	Client Info		50000	1122000	1099850
	Filter Age	mls	Client Info		25000	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	>100	35	20	14
	Chromium	ppm	ASTM D5185m		1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	3	4
	Lead	ppm	ASTM D5185m		3	<1	<1
	Copper	ppm	ASTM D5185m		3	<1	<1
	Tin	ppm	ASTM D5185m		2	1	<1
	Vanadium	ppm	ASTM D5185m		- <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.11.		AOTA DE LOS	05	_	4	4
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		22	6	9
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% A b a /ave	*ASTM D7844		0.7	0.4	0.4
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	10.3 28.3	10.1 27.9	9.9 26.8
	Silt				26.3 NONE		
	Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
						1420	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		32	12	10
The PN regult indicates that there is suitable all aliable remaining in the	Boron	ppm	ASTM D5185m	2	9	5	6
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	0	0
	Molybdenum	ppm	ASTM D5185m		13	7	9
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		801	798	666
	Calcium	ppm	ASTM D5185m		1398	1383	1225
	Phosphorus	ppm	ASTM D5185m		1124	1022	986
	Zinc	ppm	ASTM D5185m		1313	1264	1131
	Sulfur	ppm	ASTM D5185m		3586	3462	3413
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	20.9	18.6
	Base Number (BN)	mg KOH/g			4.0	4.0	4.8
	Visc @ 100°C	cSt	ASTM D445	12 00	13.8	14.2	14.2







Certificate L2367

Laboratory

Sample No.

: LW0009169 Lab Number : 06189901 Unique Number : 11046653 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024

Tested Diagnosed

: 25 May 2024 : 29 May 2024 - Sean Felton LIV TRANSPORTATION, INC

9809 INDUSTRIAL DRIVE BRIDGEVIEW, IL US 60455

Contact: CHRIS BIELECKI

CHRIS@LIVTRANSPORTATION.COM T:

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)

F: