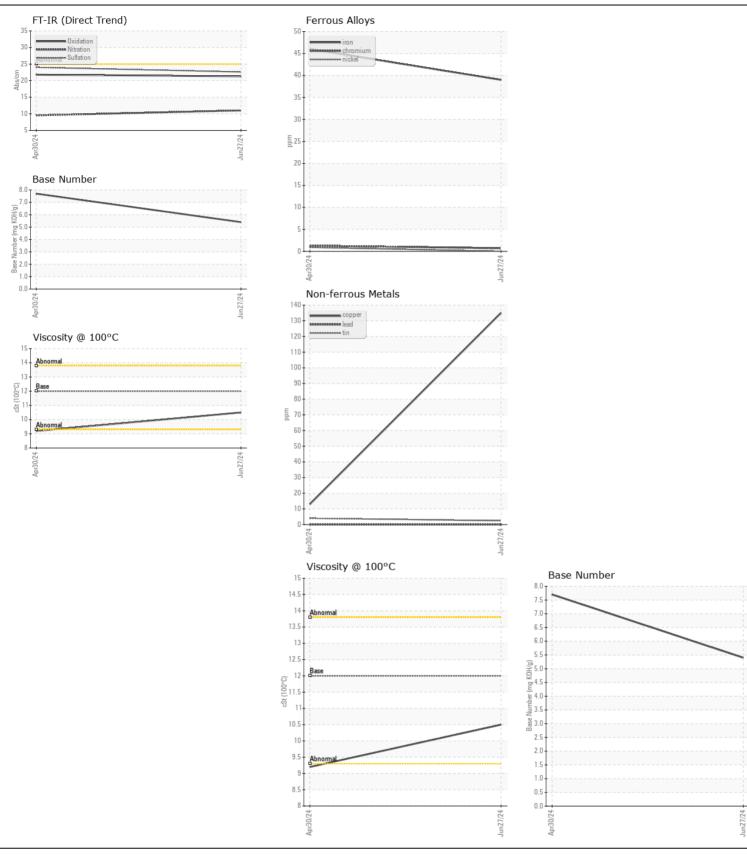
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id VOLVO 404 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009402	LW0009165	
	Sample Date		Client Info		27 Jun 2024	30 Apr 2024	
	Machine Age	hrs	Client Info		82762	0	
	Oil Age	hrs	Client Info		50000	22862	
	Filter Age	hrs	Client Info		25000	22862	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
MEAD	lvon		ACTM DE10Em	. 100	00	46	
WEAR	Iron	ppm	ASTM D5185m		39	46	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1 0	1	
		ppm	ASTM D5185m	>2	-	<1	
	Titanium Silver	ppm	ASTM D5185m	0	0	<1	
		ppm	ASTM D5185m		<1	21	
	Aluminum	ppm	ASTM D5185m		21	32	
	Lead	ppm	ASTM D5185m ASTM D5185m		0 135	0 13	
	Copper Tin	ppm	ASTM D5185m			4	
		ppm		>10	2 0	0	
	Vanadium White Metal	ppm	*Visual	NONE	NONE	NONE	
		scalar			-		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	<u> </u>	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	46	58	
	Fuel		WC Method	>6.0	<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.0	
	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	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Codium		ACTM DE10Em			4	
LUID CONDITION	Sodium	ppm	ASTM D5185m	2	3 6	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0	204 <1	
	Molybdenum	ppm	ASTM D5185m		64	121	
	Manganese	ppm	ASTM D5165III			4	
	Magnesium	ppm	ASTM D5185m		1 933	688	
	Calcium	ppm	ASTM D5185m		933 1156	1686	
	Phosphorus	ppm	ASTM D5185m		966	754	
	Zinc	ppm	ASTM D5185m		1191	846	
	Sulfur	ppm	ASTM D5185m		2435	2784	
	Oxidation	ppm Abs/.1mm	*ASTM D7414		2435	21.8	
	Base Number (BN)			>20	5.4	7.7	
	Dase NUMBER (DIV)	HIU NUM/()	MARINI LIZAMA		. 14	/ /	







Certificate L2367

Laboratory Sample No.

Lab Number : 06225594 Unique Number : 11103791 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LW0009402 Received : 01 Jul 2024 : 03 Jul 2024

Tested Diagnosed : 03 Jul 2024 - Wes Davis LIV TRANSPORTATION, INC

9809 INDUSTRIAL DRIVE BRIDGEVIEW, IL US 60455

Contact: BART KORLAGA

BART@LIVTRANSPORTATION.COM T: (224)875-1049

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)