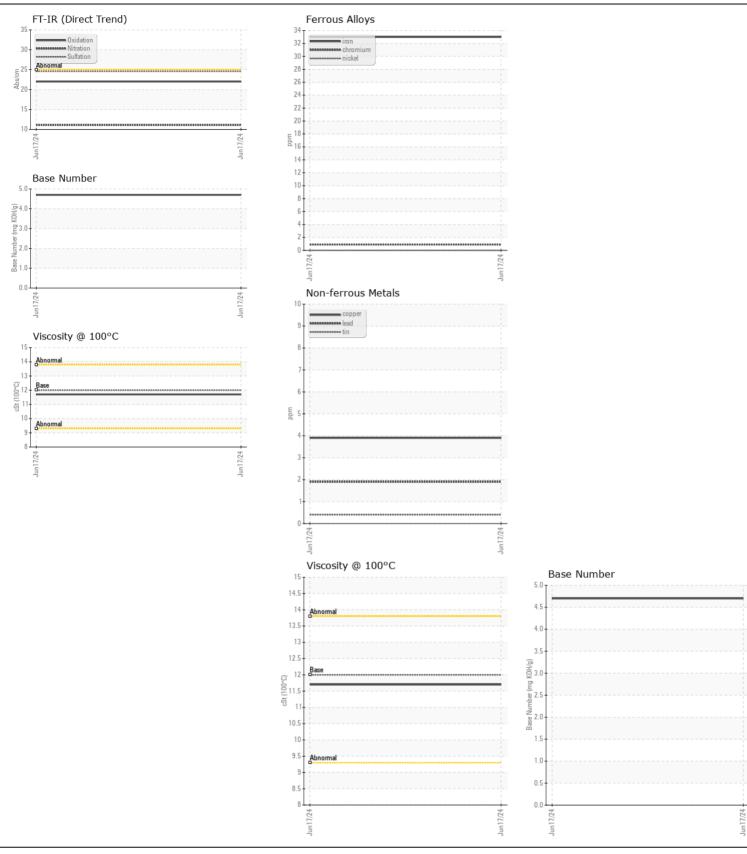
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

VOLVO 332 (S/N 4V4NC9EHXLN267951)

Diesel Engine

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0009412		
Sample Date		Client Info		17 Jun 2024		
Machine Age	mls	Client Info		793670		
Oil Age	mls	Client Info		50000		
Filter Age	mls	Client Info		25000		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	nnm	ASTM D5185m	>100	33		
			72			
			>2			
			7.0			
			NONE			
Yellow Metal	scalar	*Visual	NONE	NONE		
		40714 05405		_		
	ppm					
			>0.2			
	0/		. 0			
Sodium	ppm	ASTM D5185m		18		
Boron	ppm	ASTM D5185m	2	2		
	ppm					
-	ppm					
	ppm					
Magnesium	ppm			994		
	ppm			1236		
Phosphorus	ppm			1070		
Zinc	ppm			1386		
Sulfur	ppm			3185		
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.0		
Base Number (BN)		ASTM D2896		4.7		
	Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	Sample Date Machine Age mls Oil Age mls Filter Age mls Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Fuel Water Glycol Soot % % Nitration Abs/cm Sulfation Abs/.1mm Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Calcium ppm Sulfur ppm Sulfur ppm Sulfur	Sample Date Machine Age Mis Oil Age Mis Client Info Client Info Oil Age Mis Client Info Client Info Client Info Oil Changed Filter Changed Sample Status Iron Chromium Dpm ASTM D5185m Chromium Dpm ASTM D5185m Titanium Dpm ASTM D5185m Aluminum Dpm ASTM D5185m Lead Dpm ASTM D5185m Copper Dpm ASTM D5185m Vanadium Dpm ASTM D5185m Visual Vellow Metal Scalar Visual Vellow Method Water WC Method Water WC Method Water Glycol Soot % Abs/.1mm ASTM D7415 Silt Scalar Visual Sand/Dirt Scalar Avisual Sand/Dirt Scalar Visual Sand/Dirt Scalar Appearance Scalar Visual Sand/Dirt Scalar Appearance Scalar Appearance Scalar Scalar Visual Sand/Dirt Scalar Appearance	Sample Date Machine Age MIS Client Info Machine Age MIS Client Info Client Info Filter Age MIS Client Info Client Info Filter Age MIS Client Info Client Info Client Info Client Info Filter Changed Sample Status Iron Ppm ASTM D5185m Sample Status Iron Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver ASTM D5185m Silver ASTM D5185m Silver Ppm ASTM D5185m Vanadium Ppm ASTM D5185m White Metal Scalar Visual NONE Yellow Metal Scalar Visual NONE Silicon Ppm ASTM D5185m Vanadium Ppm ASTM D5185m White Metal Scalar Visual NONE Silicon Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vone Veltod Scalar Visual NONE Silt Scalar Visual NONE Sulfation Abs/cm Abs/cm ASTM D7844 Asi Nitration Abs/cm Abs/mm ASTM D7844 Asi Nitration Abs/cm Abs/mm ASTM D7844 None Sand/Dirt Scalar Visual NONE Sand/Dirt Scalar Visual NONE Sand/Dirt Scalar Visual NONE Sand/Dirt Scalar Appearance Scalar Visual NONE Sand/Dirt Scalar Appearance Scalar Visual NONE Sand/Dirt Scalar Appearance Scalar Ayisual NONE Sand/Dirt Scalar Appearance Scalar Ayisual NONE Sand/Dirt Scalar ASTM D5185m Boron Ppm ASTM D5185m ASTM D5185m O Magnesium Ppm ASTM D5185m O	Sample Date Client Info 17 Jun 2024 Machine Age mls Client Info 793670 Oil Age mls Client Info 50000 Filter Age mls Client Info 25000 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status NORMAL Iron ppm ASTM D5185m >20 Chromium ppm ASTM D5185m >20 <1	Sample Date Client Info 793670 Changed Client Info 793670 Changed Client Info 793670 Changed Client Info 793670 Changed C







Certificate L2367

Laboratory Sample No.

: LW0009412 Lab Number : 06217910 Unique Number : 11096107 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis LIV TRANSPORTATION, INC 9809 INDUSTRIAL DRIVE

BRIDGEVIEW, IL US 60455

Contact: CHRIS BIELECKI CHRIS@LIVTRANSPORTATION.COM

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)

T: F: