WEAR CONTAMINATION FLUID CONDITION

NORMAL MARGINAL ABNORMAL

[SPM702582 WM]
VOLVO L90H 624824

Diesel Engine

0 (GAL)						
Test	UOM	Method	Limit/Abn	Current	History1	History2
			2.1111071011			VCP398377
						18 Oct 2023
	hrs					10540
•						0
						0
•		Client Info				Not Change
•		Client Info		_	Ü	Not Change
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	43	6	8
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	4	4
Lead	ppm	ASTM D5185m	>40	8	0	0
Copper	ppm	ASTM D5185m	>20	13	<1	<1
Tin	ppm		>20	<1	<1	0
Vanadium	ppm			-		<1
	scalar			_		NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm			12	16	16
						<1.0
	70					NEG
			>0.2			NEG
-	0/_		~ 3			0.5
						7.2
						19.1
						NONE
						NONE
Sand/Dirt						NONE
Appearance		*Visual		NORML		NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>158	6	<1	1
Boron	ppm	ASTM D5185m	250	29	10	0
Barium	ppm	ASTM D5185m	10	0	0	7
Molybdenum	ppm	ASTM D5185m	100	26	58	64
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm			438	952	1027
Calcium	ppm			1520	1128	1142
Phosphorus	ppm					1079
Zinc	ppm					1301
						3832
						14.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	8.5	7.7
	Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White 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 Oxidation	Test UOM Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs 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 Potassium ppm Fuel % Water Glycol Soot % Nitration Abs/.mm Silt scalar Sulfation Abs/.mm Silt scalar Sand/Dirt scalar Sand/Dirt scalar Sand/Dirt scalar Sand/Dirt scalar Sodium ppm Boron ppm Boron ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Manganese ppm Manganese ppm Manganesium ppm Calcium ppm Phosphorus Zinc ppm Sulfur ppm	Test UOM Method Sample Number Client Info Sample Date Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m Silver ppm ASTM D5185m Copper ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m Valled % ASTM D5185m Valled % ASTM D5185m Fuel % ASTM D5185m Solf walled water scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual	Test UOM Method Limit/Abn Sample Number Client Info Client Info Machine Age hrs Client Info Machine Age hrs Client Info Filter Age hrs Client Info Client Info Gil Changed Client Info Client Info Client Info Gil Changed Client Info Client Info Sample Status Iron ppm ASTM D5185m >200 Chromium ppm ASTM D5185m >20 Chromium ppm ASTM D715 >30 Chromium ppm ASTM D7185m >30 Chromium ppm ASTM D5185m NONE Sand/Dirt scalar "Visual NONE Sand/D7185m NONE Sand/D7185m ASTM D5185m AS	Test UOM Method Limit/Abn Current Sample Number Client Info 26 Apr 2024 Machine Age hrs Client Info 10994 Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >200 43 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >20 1 Veraddium ppm ASTM D5185m >20 1 Vanadium ppm ASTM D5185m >20 <1 Vanadium ppm	Test

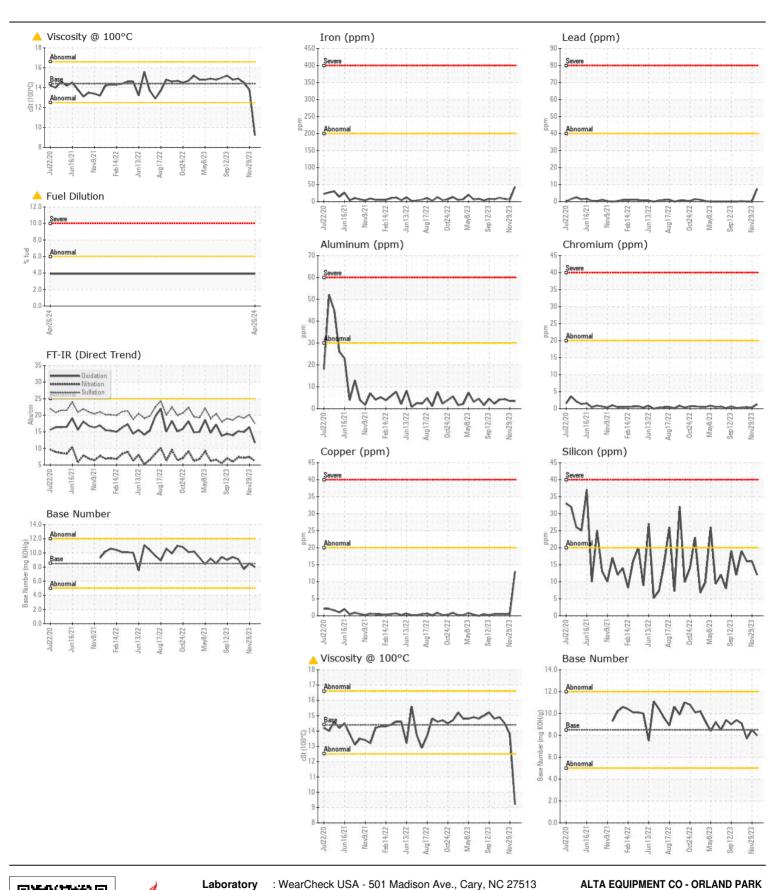
Visc @ 100°C cSt

ASTM D445 14.4

13.8

9.2

14.5







Certificate L2367

Laboratory Sample No.

Lab Number : 06211221

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP447714

Received **Tested** Unique Number : 11084085

Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 17 Jun 2024 : 19 Jun 2024

: 19 Jun 2024 - Sean Felton

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: DAVE ENG

DAVE.ENG@ALTG.COM T: (312)350-2560

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: