WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



VOLVO L70H 275 (S/N 622509)

Front Axle

VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
•						
Machine Age	hrs	Client Info		6002		
Oil Age	hrs	Client Info		1000		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
PQ		ASTM D8184		42		
Iron	ppm	ASTM D5185m	>500			
Chromium				1		
Nickel		ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	2		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>120	1		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Cilicon	nnm	ACTM DE10Em	. 50	40		
	ppiii					
	scalar					
Emulsified Water		*Visual	>0.2	NEG		
Sodium	nnm	ΔSTM D5185m		Ω		
			100			
Manganese	ppm	ASTM D5185m		2		
	ppm	ASTM D5185m	0	86		
Magnesium	PPIII					
Magnesium Calcium			3800	2956		
Calcium	ppm	ASTM D5185m		2956 1092		
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	1200	1092		
Calcium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1200			
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status PQ Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status PQ 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 Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Boron ppm Barium ppm	Sample Number Sample Date Client Info Machine Age Nrs Client Info Oil Age Nrs Client Info Cilent Info Cilent Info Client Info Sample Status PQ ASTM D8184 Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m ASTM D5185m Chromium ppm ASTM D5185m Chromium ppm ASTM D5185m North D5185m Aluminum ppm ASTM D5185m Copper ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m Valual Scalar *Visual Scalar *Visual Debris scalar *Visual Sand/Dirt Scalar *Visual Scalar *Visual Sand/Dirt Scalar *Visual Scalar *Visual	Sample Number Sample Date Client Info Machine Age Oil Age hrs Client Info Client Info Oil Age hrs Client Info Filter Age Oil Changed Filter Changed Sample Status PQ ASTM D8184 Iron Chromium ppm ASTM D5185m Silver Aluminum ppm ASTM D5185m Silver Aluminum ppm ASTM D5185m ASTM D5185m ASTM D5185m Silver Aluminum ppm ASTM D5185m ASTM D5185m Silver Aluminum ppm ASTM D5185m Silver ASTM D5185m Silver Aluminum ppm ASTM D5185m Silver ASTM D5185m Silver ASTM D5185m Silver ASTM D5185m None Copper ppm ASTM D5185m Silver ASTM D5185m None ASTM D5185m None Silicon ppm ASTM D5185m Silver ASTM D5185m Boron ASTM D5185m ASTM D5185m Boron ASTM D5185m ASTM D5185m Boron ASTM D5185m Boron ASTM D5185m Boron ASTM D5185m Boron Boron ASTM D5185m Boron ASTM D5185m Boron Boron Boron ASTM D5185m Boron B	Sample Number Client Info JR0217842 Sample Date Client Info 22 May 2024 Machine Age hrs Client Info 6002 Oil Age hrs Client Info 1000 Filter Age hrs Client Info Changed Filter Changed Client Info N/A Sample Status NORMAL NORMAL PQ ASTM D8184 42 Iron ppm ASTM D5185m >500 85 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m >30 2 Aluminum ppm ASTM D5185m >30 2 Lead ppm ASTM D5185m >30 2 Lead ppm ASTM D5185m >20 1 Vanadium ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0<	Sample Number Client Info JR0217842 Sample Date Client Info 22 May 2024 Machine Age hrs Client Info 6002 Oil Age hrs Client Info 1000 Filter Age hrs Client Info Changed Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 42 Iron ppm ASTM D5185m >500 85 Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >30 2 Aluminum ppm ASTM D5185m >30 2 Aluminum ppm ASTM D5185m >50 <1







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0217842 Lab Number : 06216039

Tested Unique Number : 11088903 Diagnosed Test Package : CONST (Additional Tests: PQ)

Received : 20 Jun 2024 : 22 Jun 2024

: 22 Jun 2024 - Wes Davis

TOTAL DEVELOPMENT SOLUTIONS LLC 7805 PROGRESS CT GAINESVILLE, VA US 20155

Contact: JOE SEALE

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.

T: (571)220-7763 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)753-4586