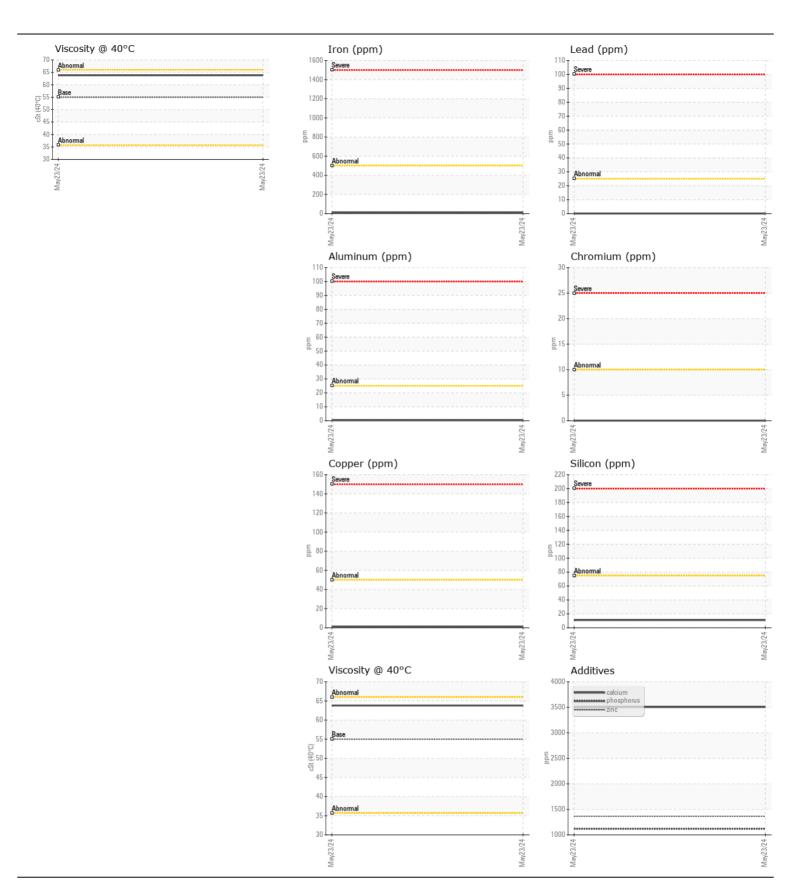
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[716767 HILLSBOROUGH]

VOLVO EW160E 324250

Front Axle

Sample Number Sample Date Machine Age Dil Age Filter Age Dil Changed Filter Changed Sample Status Fron Chromium Mickel Fitanium Silver Muminum Lead Copper Fin Manadium White Metal	hrs hrs hrs hrs ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	Client Info ASTM D5185m *Visual	>10 >10 >25 >25 >50	Current VCP452270 23 May 2024 1002 0 Changed Not Changd NORMAL 12 0 0 <1 0 <1 0 <1 NONE	History1	History2
Machine Age Dil Age Filter Age Dil Changed Filter Changed Sample Status Fron Chromium Dickel Fitanium Silver Aluminum Lead Copper Fin Manadium White Metal M	ppm	Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m	>10 >10 >25 >25 >50 >10	1002 1002 0 Changed Not Changd NORMAL 12 0 0 <1 0 <1 0 <1		
Machine Age Dil Age Filter Age Dil Changed Filter Changed Sample Status Fron Chromium Dickel Fitanium Silver Aluminum Lead Copper Fin Manadium White Metal M	ppm	Client Info Client Info Client Info Client Info Client Info ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	1002 0 Changed Not Changd NORMAL 12 0 0 <1 0 <1 0 <1 0 <1		
Filter Age Dil Changed Filter Changed Sample Status Fron Chromium Sickel Fitanium Silver Aluminum Lead Copper Fin Fanadium White Metal Fellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	0 Changed Not Changd NORMAL 12 0 0 <1 0 <1 0 <1 0 <1 0 <1		
Copper Cin White Metal Cellow Metal Ciller Changed Connection Chromium Chro	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	Changed Not Changd NORMAL 12 0 0 <1 0 <1 0 1 0 <1 0 1		
Filter Changed Sample Status Fron Chromium Chromium Silver Aluminum Lead Copper Fin Vanadium White Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	Not Changd NORMAL 12 0 0 <1 0 <1 0 1 0 <1 1 0 1	 	
Sample Status ron Chromium Jickel Titanium Silver Aluminum Lead Copper Tin /anadium White Metal /ellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	12 0 0 <1 0 <1 0 <1 0 <1		
ron Chromium Jickel Titanium Silver Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	12 0 0 <1 0 <1 0 1 0	 	
Chromium Jickel Titanium Silver Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	0 0 <1 0 <1 0 1 0	 	
Chromium Jickel Titanium Silver Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual	>10 >10 >25 >25 >50 >10	0 0 <1 0 <1 0 1 0	 	
Jickel Titanium Silver Aluminum ead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m *Visual	>10 >25 >25 >50 >10 NONE	0 <1 0 <1 0 1 0 <1 0 <1	 	
Titanium Silver Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>25 >25 >50 >10	<1 0 <1 0 1 0 <1	 	
Silver Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>25 >50 >10	0 <1 0 1 0 <1	 	
Aluminum Lead Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>25 >50 >10	<1 0 1 0 <1		
ead Copper in /anadium Vhite Metal /ellow Metal	ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>25 >50 >10	0 1 0 <1		
Copper Tin Vanadium Vhite Metal Vellow Metal	ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>50 >10 NONE	1 0 <1		
in /anadium Vhite Metal /ellow Metal	ppm ppm scalar	ASTM D5185m ASTM D5185m *Visual	>10 NONE	0 <1		
/anadium Vhite Metal /ellow Metal	ppm	ASTM D5185m *Visual	NONE	<1		
Vhite Metal 'ellow Metal	scalar	*Visual				
	scalar	*Visual	NONE			
 Silicon			INOINE	NONE		
Silicon						
	ppm	ASTM D5185m		11		
Potassium	ppm	ASTM D5185m		0		
Vater		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
:muisilied water	scalar	visuai	>0.2	NEG		
Sodium	ppm	ASTM D5185m		17		
Boron	ppm	ASTM D5185m		115		
Barium	ppm	ASTM D5185m		<1		
Nolybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		6		
/lagnesium	ppm	ASTM D5185m		11		
Calcium	ppm	ASTM D5185m		3504		
Phosphorus	ppm	ASTM D5185m		1120		
Zinc Zinc	ppm	ASTM D5185m		1365		
Sulfur	ppm	ASTM D5185m		4141		
	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	Odor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Sulfur ppm	bodor scalar *Visual smulsified Water scalar *Visual sodium ppm ASTM D5185m Boron ppm ASTM D5185m Barium ppm ASTM D5185m Molybdenum ppm ASTM D5185m Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m Phosphorus ppm ASTM D5185m Calcium ppm ASTM D5185m	Sodium ppm ASTM D5185m Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Phosphorus ppm ASTM D5185m	Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG Bodium ppm ASTM D5185m 17 115 Boron ppm ASTM D5185m 115 115 Barium ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 6 0 Magnesium ppm ASTM D5185m 11 0 Calcium ppm ASTM D5185m 3504 0 Phosphorus ppm ASTM D5185m 1120 1365 Sulfur ppm ASTM D5185m 4141	Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.2 NEG Bodium ppm ASTM D5185m 17 Boron ppm ASTM D5185m 115 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Magnaese ppm ASTM D5185m 11 Magnesium ppm ASTM D5185m 3504 Phosphorus ppm ASTM D5185m 1120 Zinc ppm ASTM D5185m 1365 Sulfur ppm ASTM D5185m 4141





Certificate L2367

Report Id: VOLVO0093 [WUSCAR] 06215108 (Generated: 06/21/2024 13:14:34) Rev: 1

Laboratory Sample No.

: VCP452270 Lab Number : 06215108 Unique Number : 11087972 Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested** : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Wes Davis

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* - 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)