WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

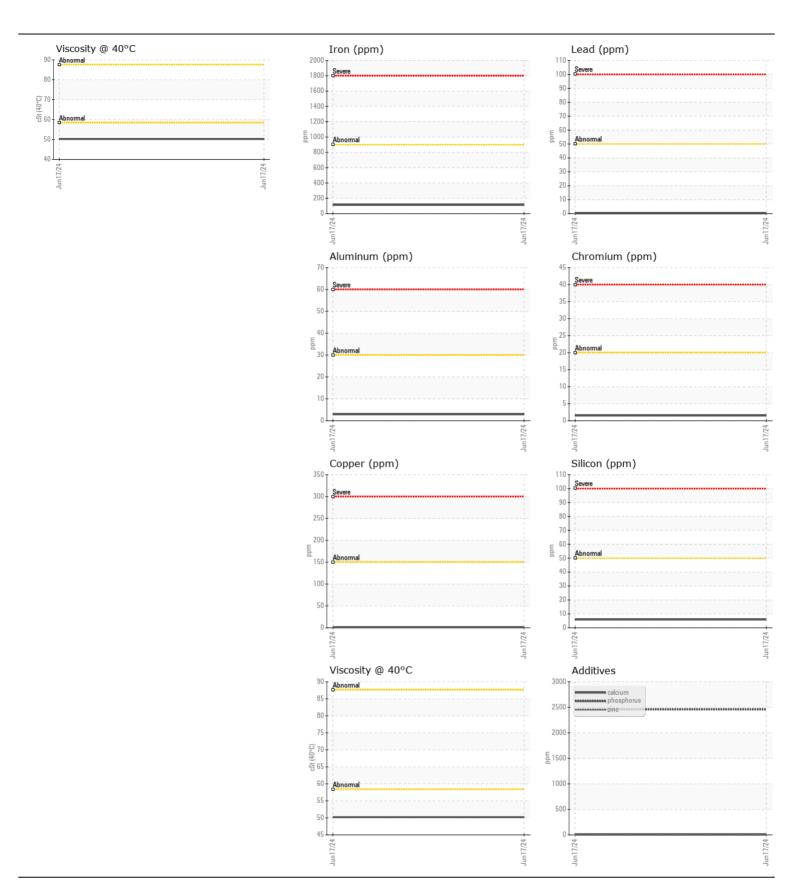
[X18706]

VOLVO A40G 353135

Front Axle

VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)

Resample at the next service interval to monitor. Sample Number Client Info VCP43302	VOLVO SUPER GEAR OIL 75W-80-GO102 (GAL)								
Sample Date Machine Age Inst Client Info 17 Jun 2024 Machine Age Inst Client Info 0 Filter Age Inst Client Info 0 Filter Age Inst Client Info 0 Filter Changed Client Info Client Info Changed Client Info Client Info Changed Client Info Client Inf	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Date Client Info 17 Jun 2024 Common Changed Ins Client Info Client Info Changed Changed Changed Client Info Changed Changed Changed Changed Client Info Changed Changed Client Info Changed Changed Changed Client Info Changed Changed Changed Client Info Changed	Resample at the next service interval to monitor.	Sample Number		Client Info		VCP433029			
Cit Age		Sample Date		Client Info		17 Jun 2024			
Filter Age		Machine Age	hrs	Client Info		4110			
Cil Changed Cilient Info Changed		Oil Age	hrs	Client Info		0			
Filter Changed Sample Status		Filter Age	hrs	Client Info		0			
Nome		Oil Changed		Client Info		Changed			
Iron		Filter Changed		Client Info		N/A			
Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >10 -1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >50 -1 Copper ppm ASTM D5185m >20 0 Tin ppm ASTM D5185m >20 0 Aluminum ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Value Value Visual NONE NONE Value None None Value None None Value None None Silt scalar Visual None None Sand/Dirt scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None		Sample Status				NORMAL			
Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >10 -1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >30 3 Aluminum ppm ASTM D5185m >50 -1 Copper ppm ASTM D5185m >20 0 Tin ppm ASTM D5185m >20 0 Aluminum ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >20 0 Value Value Visual NONE NONE Value None None Value None None Value None None Silt scalar Visual None None Sand/Dirt scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None Appearance Scalar Visual None None	WEAR	Iron	ppm	ASTM D5185m	>900	113			
Nickel ppm ASTM D5185m >10 <1		Chromium		ASTM D5185m	>20				
Titanium		Nickel				<1			
Aluminum ppm ASTM D5185m >30 3		Titanium		ASTM D5185m		<1			
Lead		Silver		ASTM D5185m		0			
Copper		Aluminum	ppm	ASTM D5185m	>30	3			
Tin		Lead	ppm	ASTM D5185m	>50	<1			
Vanadium		Copper	ppm	ASTM D5185m	>150	1			
White Metal Scalar Visual NONE NONE NONE Visual NONE Visual NONE NONE Visual NORML NORM		Tin	ppm	ASTM D5185m	>20	0			
Yellow Metal scalar Visual NONE NO		Vanadium	ppm	ASTM D5185m		0			
Silicon ppm ASTM D5185m >50 6		White Metal	scalar	*Visual	NONE	NONE			
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.2 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORM NORML Appearance scalar *Visual NORM NORM NORML Appearance scalar *Visual NORM NORM NORM Debris scalar *Visual NORM NORM NORM Appearance scalar *Visual NORM NORM NORM Debris scalar *Visual NORM NORM Debris scalar *Visual NORM		Yellow Metal	scalar	*Visual	NONE	NONE			
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.2 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORM NORML Appearance scalar *Visual NORM NORM NORML Appearance scalar *Visual NORM NORM NORM Debris scalar *Visual NORM NORM NORM Appearance scalar *Visual NORM NORM NORM Debris scalar *Visual NORM NORM Debris scalar *Visual NORM	CONTAMINATION	Silicon	nnm	ΔSTM D5185m	<u>~50</u>	6			
Water									
Silt			PPIII						
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual Scalar *Visual Scalar *Visual Scalar *V			scalar						
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual NORML									
Appearance Scalar *Visual NORML NORM									
Odor scalar *Visual NORML NORML Scalar *Visual Scalar *Visual *Scalar *Visual Scalar *Visual *Visua									
Emulsified Water scalar *Visual >0.2 NEG									
Boron ppm ASTM D5185m 241 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m 4 Calcium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 2460 Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208			scalar	*Visual					
Boron ppm ASTM D5185m 241 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m 4 Calcium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 2460 Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208	FLUID CONDITION	Sodium	nnm	ACTM DE18Em		4			
Barium ppm ASTM D5185m Q Molybdenum ppm ASTM D5185m Q Manganese ppm ASTM D5185m Q Magnesium ppm ASTM D5185m Q Magnesium ppm ASTM D5185m Q Calcium ppm ASTM D5185m Q Q Phosphorus ppm ASTM D5185m Q Q Q Zinc ppm ASTM D5185m Q Q Q Q Sulfur ppm ASTM D5185m Q Q Q Q Q Q Q Q Q									
Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m <1 Calcium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 2460 Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208	The condition of the oil is acceptable for the time in service.								
Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m <1									
Magnesium ppm ASTM D5185m <1		•							
Calcium ppm ASTM D5185m 3 Phosphorus ppm ASTM D5185m 2460 Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208		-							
Phosphorus ppm ASTM D5185m 2460 Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208		-							
Zinc ppm ASTM D5185m 7 Sulfur ppm ASTM D5185m 30208									
Sulfur ppm ASTM D5185m 30208		•							
		Visc @ 40°C	cSt	ASTM D445		50.2			





Certificate L2367

Sample No.

Laboratory Lab Number : 06222602 Unique Number : 11100799 Test Package : MOB 1

: VCP433029

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

Received : 27 Jun 2024 **Tested** : 28 Jun 2024

Diagnosed : 29 Jun 2024 - Don Baldridge

APAC BENTON 393 OREILLY RD BENTON, MS US 39039 Contact: WILL RATLIFF

will.ratliffjr@apac.com T: (601)397-3696

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)