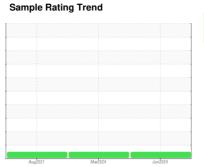


OIL ANALYSIS REPORT

Sail









VOLVO A45G 342394

Component Front Axle

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002735	ML0000902	VCP318184
Sample Date		Client Info		07 Jun 2024	26 Mar 2024	30 Aug 2021
Machine Age	hrs	Client Info		8550	8192	4119
Oil Age	hrs	Client Info		358	4073	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>900	28	101	123
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	<1
Lead	ppm	ASTM D5185m	>50	0	0	2
Copper	ppm	ASTM D5185m	>150	<1	2	2
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVEO -						
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 333	history1 292	history2 177
	ppm ppm		limit/base			•
Boron		ASTM D5185m	limit/base	333	292	177
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	333 0	292	177
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1	292 0 <1	177 0 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0	292 0 <1 2	177 0 0 5
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0	292 0 <1 2	177 0 0 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0 1	292 0 <1 2 1 83	177 0 0 5 0 46
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0 1 18 2209	292 0 <1 2 1 83 2352	177 0 0 0 5 0 46 988
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0 1 18 2209 13	292 0 <1 2 1 83 2352 57	177 0 0 5 0 46 988 27
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	333 0 <1 0 1 18 2209 13 28560	292 0 <1 2 1 83 2352 57 31371	177 0 0 5 0 46 988 27 25436
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	333 0 <1 0 1 18 2209 13 28560 current	292 0 <1 2 1 83 2352 57 31371 history1	177 0 0 5 0 46 988 27 25436 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	333 0 <1 0 1 18 2209 13 28560 current	292 0 <1 2 1 83 2352 57 31371 history1 3	177 0 0 0 5 0 46 988 27 25436 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	333 0 <1 0 1 18 2209 13 28560 current 1	292 0 <1 2 1 83 2352 57 31371 history1 3	177 0 0 0 5 0 46 988 27 25436 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20	333 0 <1 0 1 18 2209 13 28560 current 1 0 1	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20 limit/base	333 0 <1 0 1 18 2209 13 28560 current 1 0 1	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	limit/base >50 >20 limit/base NONE	333 0 <1 0 1 18 2209 13 28560 current 1 0 1	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7 history2 LIGHT
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *Visual *Visual	limit/base >50 >20 limit/base NONE NONE	333 0 <1 0 1 18 2209 13 28560 current 1 0 1 current NONE NONE	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7 history2 LIGHT NONE
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185m method *Visual *Visual	limit/base >50 >20 limit/base NONE NONE NONE	333 0 <1 0 1 18 2209 13 28560 current 1 0 1 current NONE NONE NONE	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE NONE NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7 history2 LIGHT NONE NONE
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m METHOD ASTM D5185m **Visual **Visual **Visual	limit/base >50 >20 limit/base NONE NONE NONE NONE	333 0 <1 0 1 18 2209 13 28560 current 1 0 1 current NONE NONE NONE	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE NONE NONE NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7 history2 LIGHT NONE NONE
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >50 >20 limit/base NONE NONE NONE NONE NONE NONE	333 0 <1 0 1 18 2209 13 28560 current 1 0 1 current NONE NONE NONE NONE NONE NONE	292 0 <1 2 1 83 2352 57 31371 history1 3 2 1 history1 NONE NONE NONE NONE NONE NONE NONE	177 0 0 0 5 0 46 988 27 25436 history2 4 1 7 history2 LIGHT NONE NONE NONE

NORML

NEG

NEG

NORML

>0.2

scalar *Visual

scalar *Visual

*Visual

scalar

NORML

Odor

Emulsified Water

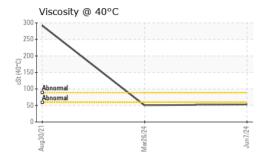
NORML

NEG

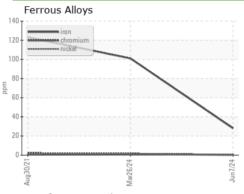
ted RyEService - Alexaderson

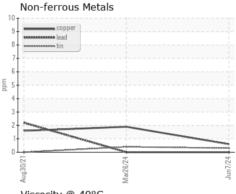


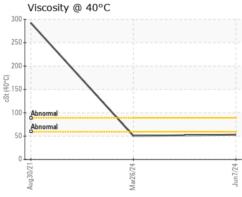
OIL ANALYSIS REPORT



FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		53.0	50.5	292
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						











Certificate 12367

Laboratory

Sample No. : ML0002735 Lab Number : 06208143 Unique Number : 11075604 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jun 2024 Tested : 14 Jun 2024

Diagnosed : 14 Jun 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND

1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.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)

Report Id: VOLVO8882 [WUSCAR] 06208143 (Generated: 06/14/2024 18:51:45) Rev: 1

Submitted By: Service - Alex Anderson

F: (804)266-1611