**WEAR CONTAMINATION FLUID CONDITION** 

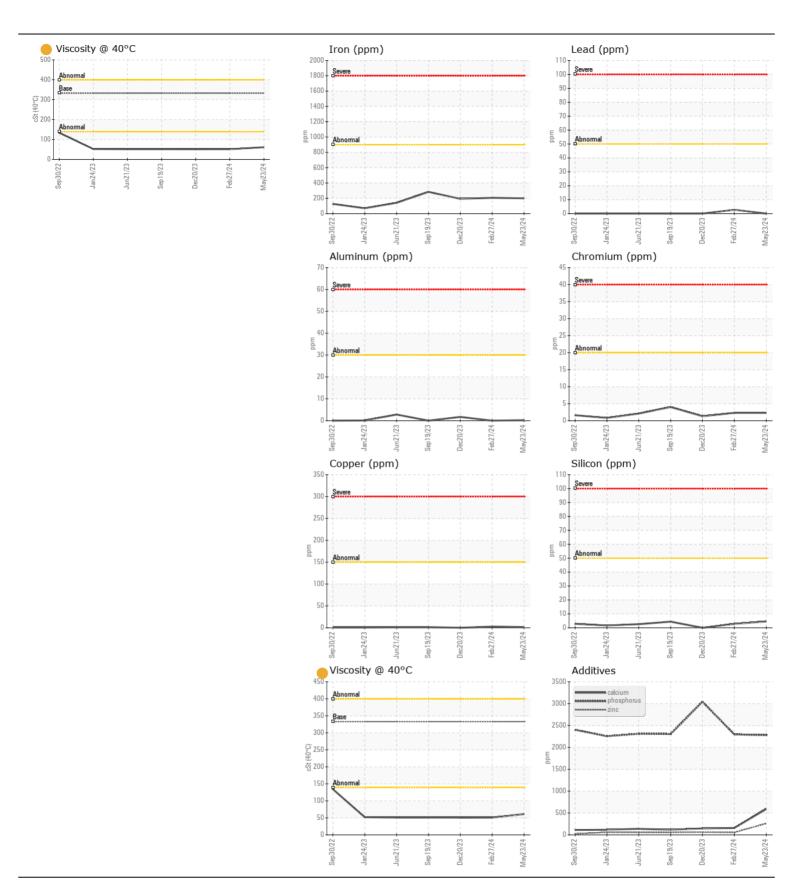
**NORMAL NORMAL ATTENTION** 

## [SWO-071952]

## **VOLVO A45G 352969**



Sample Number   Client Info   Client Info	VOLVO PREMIUM GEAR OIL	85W-140 GL-	5 (	GAL)				
Sample Number   Client Info   Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age	The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info			VCP446720	VCP414810
Oi   Age   hrs   Client Info   O   O   O   O   O		Sample Date		Client Info		23 May 2024	27 Feb 2024	20 Dec 2023
Filter Age		Machine Age	hrs	Client Info		3944	3453	2980
Oil Changed   Cilent Info   Changed   Not Changed   Not Changed   Cilent Info   Changed   Not Changed   Not Changed   Not Changed   Sample Status   Not Changed   Not Ch		Oil Age	hrs	Client Info		0	0	0
Filter Changed   Client Info   Not Changed ATTENTION   ATTENTION   Not Changed Part   Not Changed Part		Filter Age	hrs	Client Info		0	0	0
		Oil Changed		Client Info		Changed	Not Changd	Not Changd
VEAR		Filter Changed		Client Info		Not Changd	N/A	Not Changd
Chromium   ppm   ASTM D5185m   >20   2   2   1     Nickel   ppm   ASTM D5185m   >10   <1   <1   0   0     Silver   ppm   ASTM D5185m   >0   0   0   0     Aluminum   ppm   ASTM D5185m   >50   0   0   0     Aluminum   ppm   ASTM D5185m   >50   0   3   0     Copper   ppm   ASTM D5185m   >50   0   3   0     Copper   ppm   ASTM D5185m   >50   0   3   0     Tin   ppm   ASTM D5185m   >50   0   3   0     Tin   ppm   ASTM D5185m   >50   0   3   0     Tin   ppm   ASTM D5185m   >50   0   0   0     Vanadium   ppm   ASTM D5185m   >50   0   0   0     Vanadium   ppm   ASTM D5185m   >50   <1   0   0   0     Vanadium   ppm   ASTM D5185m   >50   4   2   0     Valer   Visual   NONE		Sample Status				ATTENTION	ATTENTION	ATTENTION
Chromium   ppm   ASTM DS185m   >20   2   2   1     Nickel   ppm   ASTM DS185m   >10   <1   <1   0   0     Silver   ppm   ASTM DS185m   >10   0   0   0     Aluminum   ppm   ASTM DS185m   >0   0   0   0     Aluminum   ppm   ASTM DS185m   >50   0   3   0     Copper   ppm   ASTM DS185m   >50   0   3   0     Copper   ppm   ASTM DS185m   >50   0   3   0     Tin   ppm   ASTM DS185m   >50   0   0   0     Vanadium   ppm   ASTM DS185m   >50   0   0   0     Vanadium   ppm   ASTM DS185m   >50   0   0   0     Vanadium   ppm   ASTM DS185m   >50   4   0   0     Vanadium   ppm   ASTM DS185m   >50   4   0   0     Valued   Visual   NONE	WEAR	Iron	ppm	ASTM D5185m	>900	198	206	192
Nickel   ppm   ASTM DS185m   >10   <1   <1   0   0   0   0   0   0   0   0   0	All component wear rates are normal.	Chromium		ASTM D5185m	>20	2	2	1
Titanium   ppm   ASTM 05185m   0 0 0 0 0		Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Aluminum		Titanium		ASTM D5185m		0	0	0
Lead		Silver	ppm	ASTM D5185m		0	0	0
Copper		Aluminum	ppm	ASTM D5185m	>30	<1	0	2
Tin ppm ASTM D5185m >20 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Lead	ppm	ASTM D5185m	>50	0	3	0
Vanadium   ppm   ASTM D5185m   <1   0   0   0   0   0   0		Copper	ppm	ASTM D5185m	>150	2	3	0
White Metal   Scalar   *Visual   NONE   NO		Tin	ppm	ASTM D5185m	>20	<1	0	0
Yellow Metal   Scalar   Visual   NONE   NO		Vanadium	ppm	ASTM D5185m		<1	0	0
Silicon   ppm   ASTM D5185m   >50   4   3   0		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium   ppm   ASTM D5185m   >20   4   2   0		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium   ppm   ASTM D5185m   >20   4   2   0	CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	4	3	0
Water   WC Method   >0.2   NEG   NEG   NEG	There is no indication of any contamination in the oil.	Potassium		ASTM D5185m	>20	4	2	0
Debris   scalar   *Visual   NONE   NORML		Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirt   scalar *Visual   NONE   NONE   NONE   NONE   Appearance   scalar *Visual   NORML   NORML		Silt	scalar	*Visual	NONE	LIGHT	LIGHT	MODER
Appearance   Scalar *Visual   NORML   NORML		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water   scalar   *Visual   >0.2   NEG   NEG   NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium   ppm   ASTM D5185m   2   2   0		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.    Boron   ppm   ASTM D5185m   111   158   169   217		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.    Boron   ppm   ASTM D5185m   111   158   169   217	FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	0
addition of a different brand, or type of oil. Confirm oil type.    Barium   ppm   ASTM D5185m   0.0   0   0   0   4	The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.	Boron		ASTM D5185m	111	158	169	217
Manganese         ppm         ASTM D5185m         0.0         8         8         3           Magnesium         ppm         ASTM D5185m         39         8         1         0           Calcium         ppm         ASTM D5185m         93         588         157         147           Phosphorus         ppm         ASTM D5185m         920         2280         2297         3044           Zinc         ppm         ASTM D5185m         104         258         55         63           Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977		Barium	ppm	ASTM D5185m	0.0	0	0	4
Manganese         ppm         ASTM D5185m         0.0         8         8         3           Magnesium         ppm         ASTM D5185m         39         8         1         0           Calcium         ppm         ASTM D5185m         93         588         157         147           Phosphorus         ppm         ASTM D5185m         920         2280         2297         3044           Zinc         ppm         ASTM D5185m         104         258         55         63           Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977		Molybdenum	ppm	ASTM D5185m	0.9	5	4	0
Calcium         ppm         ASTM D5185m         93         588         157         147           Phosphorus         ppm         ASTM D5185m         920         2280         2297         3044           Zinc         ppm         ASTM D5185m         104         258         55         63           Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977			ppm	ASTM D5185m	0.0	8	8	3
Phosphorus         ppm         ASTM D5185m         920         2280         2297         3044           Zinc         ppm         ASTM D5185m         104         258         55         63           Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977		Magnesium	ppm	ASTM D5185m	39	8	1	0
Zinc         ppm         ASTM D5185m         104         258         55         63           Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977		Calcium	ppm	ASTM D5185m	93	588	157	147
Sulfur         ppm         ASTM D5185m         20179         29814         25405         3977		Phosphorus	ppm	ASTM D5185m	920	2280	2297	3044
		Zinc	ppm	ASTM D5185m	104	258	55	63
Visc @ 40°C cSt ASTM D445 333 61.0 50.9 50.5		Sulfur	ppm	ASTM D5185m	20179	29814	25405	39775
		Visc @ 40°C	cSt	ASTM D445	333	61.0	50.9	50.5





Certificate L2367

Laboratory Sample No.

: VCP439686 Lab Number : 06195785 Unique Number: 11057908 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 : 30 May 2024 **Tested** : 31 May 2024

: 01 Jun 2024 - Don Baldridge Diagnosed

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD BIRMINGHAM, AL US 35207

Contact: STEPHANI BRITTON

sbritton@saiia.com;doug.bogart@wearcheck.com T: (205)943-2268

\* - 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: (205)943-2269