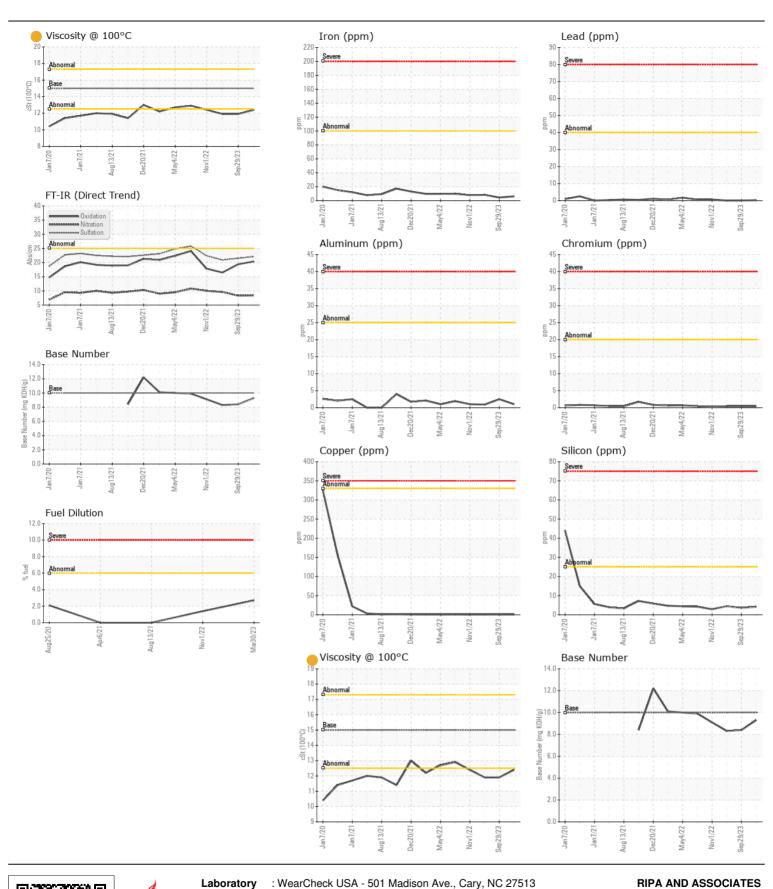


Machine Id **VOLVO A30G 742585**

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP447045		VCP403997
	Sample Date		Client Info		01 Apr 2024	29 Sep 2023	30 Mar 2023
	Machine Age	hrs	Client Info		6734	6229	5765
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
VEA D							
VEAR	Iron	ppm	ASTM D5185m		6	4	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	<1
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Potassium	ppm	ASTM D5185m		1	<1	2
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>6.0	<1.0	<1.0	<u>^</u> 2.7
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.3	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	21.5	20.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	0 - 45		AOTA DE LOS			0	
LUID CONDITION	Sodium	ppm	ASTM D5185m	0.5	<1	3	2
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		38	30	14
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		42	47	69
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		487	576	826
	Calcium	ppm		2057	1560	1699	1409
	Phosphorus	ppm	ASTM D5185m		980	1057	1117
	Zinc	ppm		1223	1074	1264	1322
	Sulfur Oxidation	ppm	ASTM D5185m		2989	3375	4091
	LIVIGATION	Abs/.1mm	*ASTM D7414	>25	20.4	19.4	16.5
	Base Number (BN)			10	9.3	8.4	8.3





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06194968

: VCP447045 Unique Number : 11057091

Received

Tested Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, TBN)

: 30 May 2024 : 31 May 2024

: 31 May 2024 - Don Baldridge

Contact: PM Services PMServices@ripaconstruction.com

10149 FISHER AVENUE

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)

TAMPA, FL

US 33619

T: F: