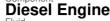
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL SEVERE SEVERE** 

Area [2673-1]

## **VOLVO A30G 752891**



Diesel Engine							
DIESEL ENGINE OIL SAE 15W4	10 ( GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP441051		
	Sample Date		Client Info		20 Dec 2023		
	Machine Age	hrs	Client Info		807		
	Oil Age	hrs	Client Info		280		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>100	5		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		- <1		
	Copper	ppm	ASTM D5185m		48		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	1		
	Fuel	%	ASTM D3524	>6.0	<b>69.8</b>		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0		
	Boron	ppm	ASTM D5185m	250	12		
Visc @ 100°C is severely low. Phosphorus ppm levels are abnormally low. Sulfur ppm levels are abnormally low. Zinc ppm levels are abnormally low. Calcium ppm levels are abnormally low. The BN result	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		15		
abnormally low. Calcium born levels are abnormally low. The bix result		ppm	ASTM D5185m		0		
	Manganese	PPIII					
indicates that there is suitable alkalinity remaining in the oil. Fuel is	Manganese Magnesium	ppm	ASTM D5185m	450	146		
		ppm	ASTM D5185m ASTM D5185m	450 3000	146 ^ 562		
indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer	Magnesium		ASTM D5185m ASTM D5185m ASTM D5185m	3000	<u>▲</u> 562		
indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer	Magnesium Calcium	ppm ppm	ASTM D5185m	3000 1150	▲ 562 ▲ 352		
indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer	Magnesium Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	3000 1150 1350	▲ 562 ▲ 352		

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

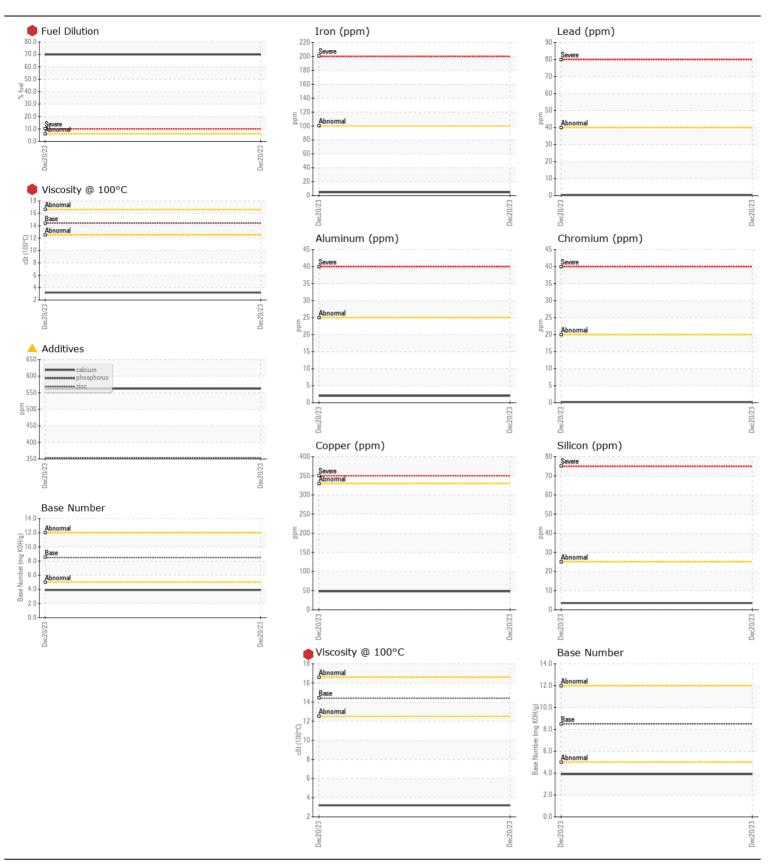
ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

16.9

3.9

3.2





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: VCP441051 : 06045783 : 10806391

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 27 Dec 2023 Diagnosed

: 28 Dec 2023 Diagnostician : Wes Davis

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

MCCLUNG-LOGAN EQUIPMENT CO - WISE PO BOX 1158 WISE, VA

US 24293 Contact: DANNY BARRINGTON

dbarrington@mcclung-logan.com T:

\* - 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: