**WEAR CONTAMINATION FLUID CONDITION** 

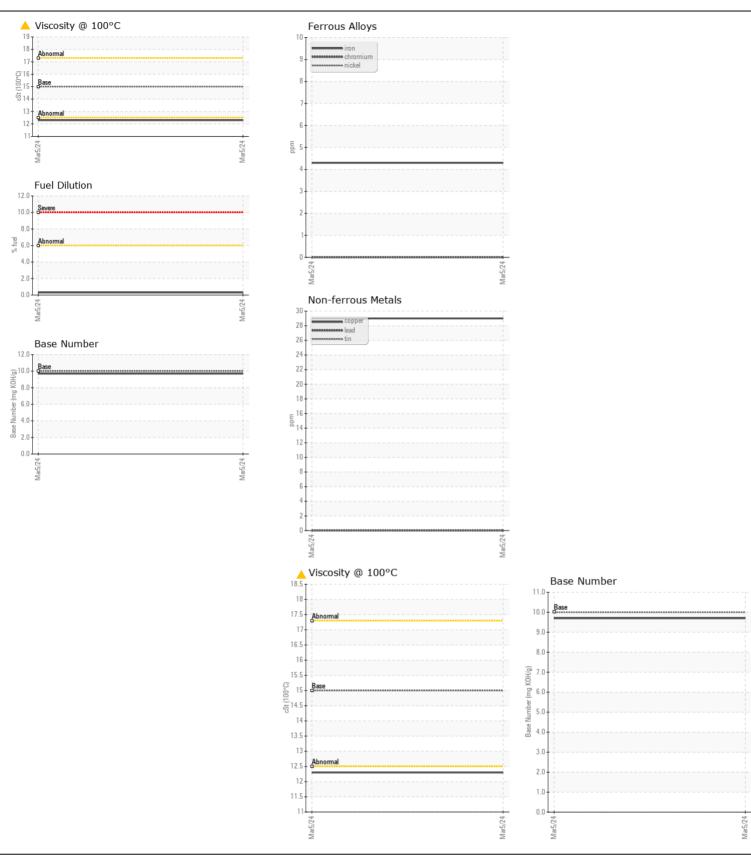
**NORMAL NORMAL MARGINAL** 

## Area [ALLEN MYERS] **VOLVO A30G 753603**

Component Diesel Engine

VOI VO III TRA DIFSEL ENGINE OIL 15W40 VDS-3 (--- GAL)

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
REGUINIERDATION	Sample Number		Client Info		ML0000762		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		05 Mar 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Onorte inito		MARGINAL		
	····				·····		
WEAR	Iron	ppm	ASTM D5185m	>100	4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		29		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	·····						
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel	%	ASTM D3524	>6.0	0.3		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		67		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		48		
	Manganese	ppm	ASTM D5185m	0.0	<1		
	Magnesium	ppm	ASTM D5185m	256	452		
	Calcium	ppm	ASTM D5185m	2057	1753		
	Phosphorus	ppm	ASTM D5185m	935	808		
	Zinc	ppm	ASTM D5185m	1223	909		
	Sulfur	ppm	ASTM D5185m	4079	3189		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.7		
	Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.3</b>		
					$\overline{}$		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0000762

Lab Number : 06122980 Unique Number: 10937131

**Tested** Diagnosed Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 22 Mar 2024

: 19 Mar 2024

: 22 Mar 2024 - Jonathan Hester

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE 4112 HOLLAND BLVD CHESAPEAKE, VA US 23323

Contact: TOMMY GRIFFIN tgriffin@mcclung-logan.com

T: (757)485-3314 F: (757)485-3415

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)

Received