

Δre

	[W/O 10803]
2-	VOLVO A30G 742461
200	Diesel Engine
-	CHEVRON 15W40 (10)

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	00111	Client Info		ML0001318	-	VCP264555
Oil and filter change at the time of sampling has been noted. Resample	Sample Date		Client Info		16 May 2024		13 Dec 2019
at the next service interval to monitor.	Machine Age	hrs	Client Info		2923	1802	1255
	Oil Age	hrs	Client Info		1121	0	0
	Filter Age	hrs	Client Info		1121	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Gliotit Inio		ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	9	8	17
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	13	12
	Silver	ppm	ASTM D5185m	>2	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>25	3	2	2
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	5	10	56
	Tin	ppm	ASTM D5185m		2	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	9
	Potassium	ppm	ASTM D5185m	>20	2	2	2
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	10.1	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	20.6	20.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	3	2	3
	Boron	ppm	ASTM D5185m		80	69	28
The oil viscosity is lower than normal. The BN result indicates that	Barium	ppm	ASTM D5185m		0	0	0
there is suitable alkalinity remaining in the oil. Confirm oil type.	Molybdenum	ppm	ASTM D5185m		51	23	24
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		333	697	611
	Calcium	ppm	ASTM D5185m		1670	1507	1479
	Phosphorus	ppm	ASTM D5185m		779	675	669
	Zinc	ppm	ASTM D5185m		1063	789	759
	Sulfur	ppm	ASTM D5185m		3111	2830	564
	Out deathers	AL / 4	****	05		44.0	45

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896

14.6

7.4

11.1

15

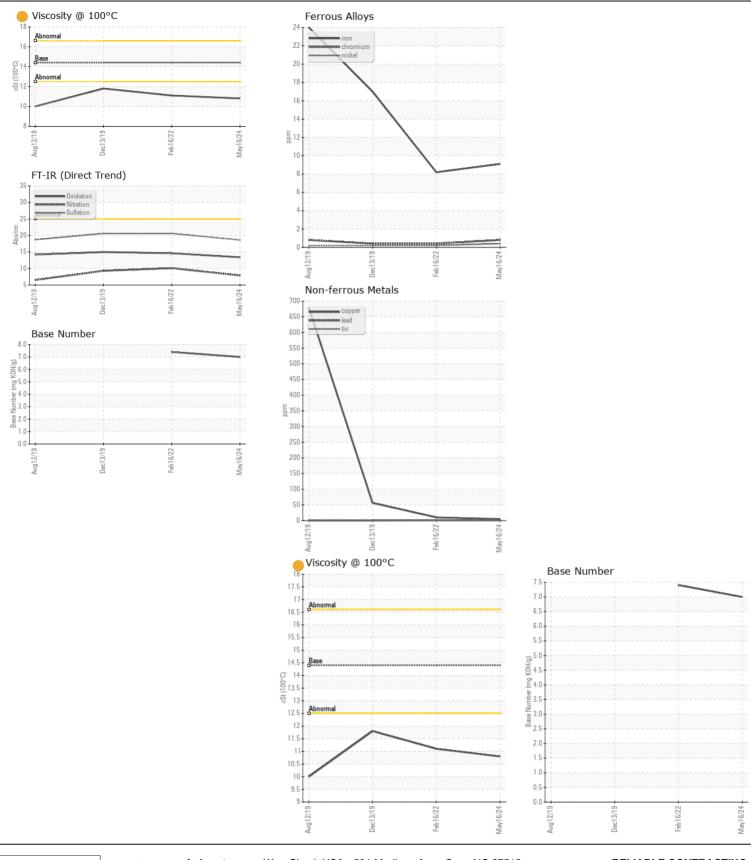
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11.8

13.4

7.0

10.8



**RELIABLE CONTRACTING** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 2410 EVERGREEN RD SUITE 200 : ML0001318 : 24 May 2024 Lab Number : 06190333 : 29 May 2024 GAMBRILLS, MD Tested : 29 May 2024 - Don Baldridge US 21054 Unique Number : 11047085 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: RUSSELL HATFIELD Certificate L2367 RHATFIELD@RELIABLECONTRACTING.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. T: (410)987-1851 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)