

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

Machine Id VOLVO A45G 13411 (S/N 752029) onen

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		ASC0002897	ASC0008687	VCP430737
	Sample Date		Client Info		03 Apr 2024	24 Feb 2024	08 Dec 2023
	Machine Age	hrs	Client Info		1328	1328	469
	Oil Age	hrs	Client Info		1328	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	15	29	21
	Chromium	ppm	ASTM D5185m		1	1	<1
	Nickel	ppm	ASTM D5185m		2	3	2
	Titanium	ppm	ASTM D5185m	~ _	_ <1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	3	2
	Lead	ppm	ASTM D5185m		1	1	6
	Copper	ppm	ASTM D5185m		117	184	<u>▲</u> 454
	Tin	ppm	ASTM D5185m		2	3	4
	Vanadium	ppm	ASTM D5185m	210	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						NONE	HOHL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	10	28
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
	Fuel		WC Method	>6.0	<1.0	<1.0	0.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.4	9.5
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	20.0	18.3
	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	>75	0	2	3
	Boron	ppm	ASTM D5185m	250	2	4	42
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	66	82
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	824	829	31
	Calcium	ppm	ASTM D5185m	3000	1037	1257	2450
	Phosphorus	ppm	ASTM D5185m	1150	809	923	1104
	Zinc	ppm	ASTM D5185m	1350	1062	1149	1220
	Sulfur	ppm	ASTM D5185m	4250	2398	2532	4216
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.2	14.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	6.0	6.1
	V/ 0 40000	~		100			10.0

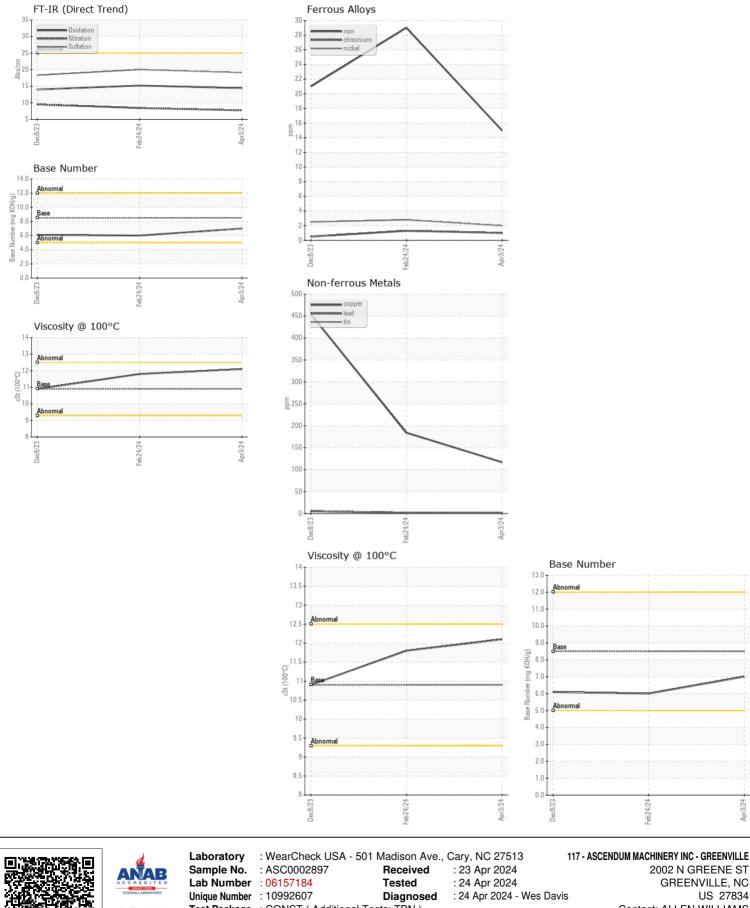
Visc @ 100°C cSt

11.8

10.9

12.1

ASTM D445 10.9



 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)

 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.

Contact: ALLEN WILLIAMS allen.williams@ascendummachinery.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)494-8197

Submitted By: Service - Brandon Lewis Page 2 of 2