

onen

Machine Id

VOLVO A45G 353461 **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		ASC0006229	VCP443490	VCP441478
	Sample Date		Client Info		04 Jun 2024	10 Jan 2024	17 Nov 2023
	Machine Age	hrs	Client Info		2843	2843	2365
	Oil Age	hrs	Client Info		2843	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	8	15
	Chromium	ppm	ASTM D5185m		<1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		4	4	6
	Titanium	ppm	ASTM D5185m	~ _	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	<1
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		9	75	120
	Tin	ppm	ASTM D5185m		<1	1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0:1:						
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m		4	3 <1	5
There is no indication of any contamination in the oil.	Fuel	ppm	ASTM D5185m WC Method		2	<1.0	0 <1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.6	0.3	0.6
	Nitration	Abs/cm		>20	8.8	7.7	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		19.8	18.8	22.1
	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					•	4	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m		2 4	1 4	2
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 ASTM D5185m		4	0	12 0
	Molybdenum	ppm ppm	ASTM D5185m		59	55	40
	Manganese	ppm	ASTM D5185m	100	- 59 1	<1	0
	Magnesium	ppm	ASTM D5185m	450	916	780	527
	Calcium	ppm	ASTM D5185m		1083	1018	1485
	Phosphorus	ppm	ASTM D5185m		1003	893	768
	Zinc	ppm	ASTM D5185m		1202	1091	1031
	Sulfur	ppm	ASTM D5185m		3315	2468	2155
		Ppin		.200		2400	2100

Oxidation

Visc @ 100°C cSt

14.5

7.6

11.9

20.5

7.8

11.6

14.6

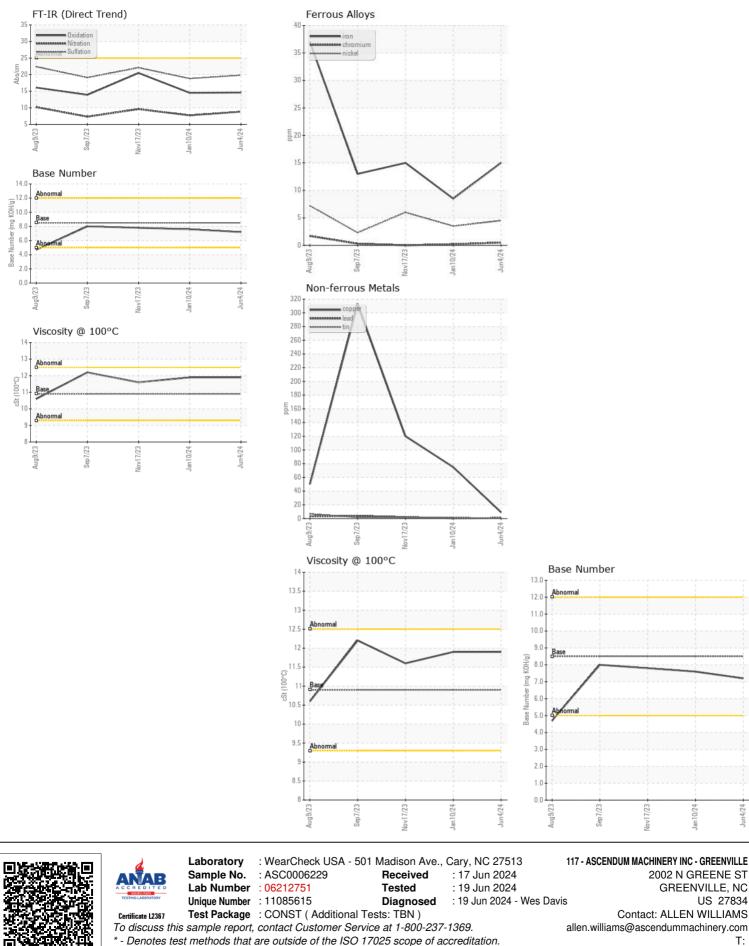
7.2

11.9

Abs/.1mm *ASTM D7414 >25

ASTM D445 10.9

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



* - 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: (704)494-8197

Submitted By: Service - Brandon Lewis Page 2 of 2