

Machine Id

VOLVO A30G 752352 nonen **Diesel Engine** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

VOLVO ULTRA DIESEL ENGINE OIL 13W40 VDS-3 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	0.0111	Client Info	Ennerion	ASC0004961	VCP435091	VCP400199
Resample at the next service interval to monitor.	Sample Date		Client Info		03 May 2024	29 Aug 2023	12 May 2023
	Machine Age	hrs	Client Info		4000	3125	2722
	Oil Age	hrs	Client Info		500	0	0
	Filter Age	hrs	Client Info		500	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	10	11	17
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		5	<1	<1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		3	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	<1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.6	0.7
	Nitration	Abs/cm	*ASTM D7624		8.2	8.0	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.7	21.3	23.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Scalal	visuai	>0.2		NLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		36	23	22
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		41	36	44
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		501	495	532
	Calcium	ppm	ASTM D5185m		1716	1813	1880
	Phosphorus	ppm	ASTM D5185m		931	917	986
	Zinc	ppm	ASTM D5185m		1063	1144	1204
	Sulfur	ppm	ASTM D5185m	4079	3088	3687	3815

Oxidation

Visc @ 100°C cSt

18.6

8.9

12.8

9.0

21.6

13.1

19.6

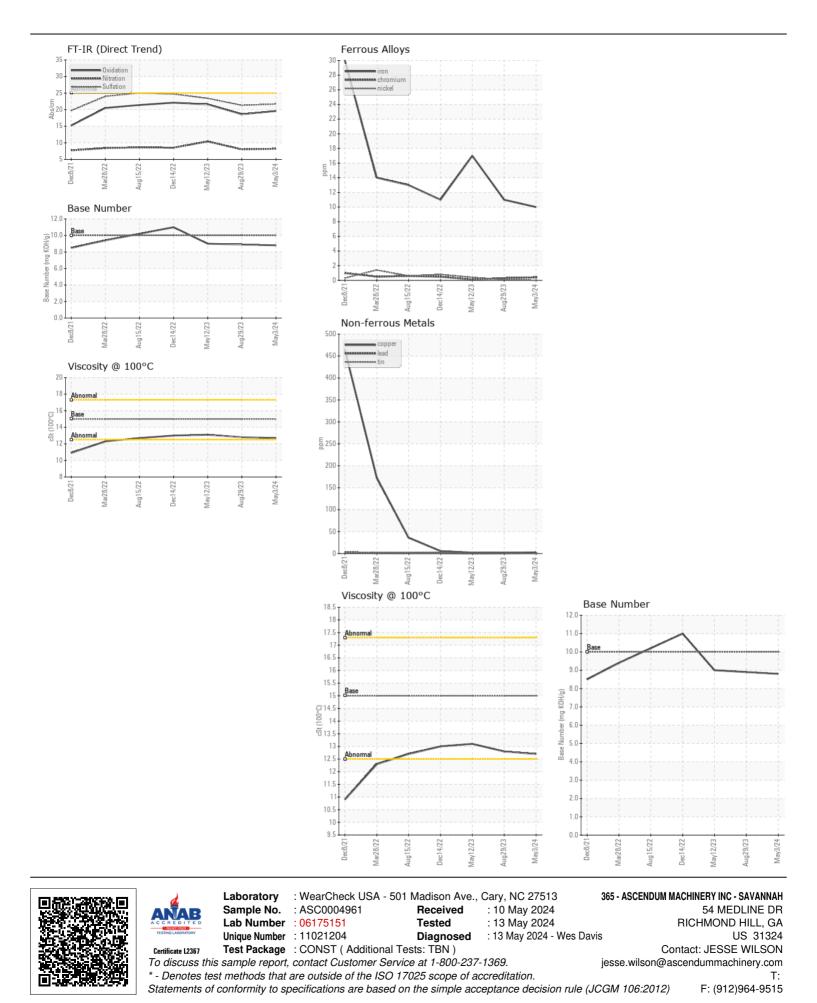
8.8

12.7

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.0

Base Number (BN) mg KOH/g ASTM D2896 10



Submitted By: AMANDA KARI Page 2 of 2