

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id VOLVO A25G ED17 (S/N A Component Diesel Engine	25G74206	9)					
UNITED OIL DURALENE ( Q1	ſS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0035108	DC0025573	DC0021204
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		20 Feb 2024	27 Oct 2022	12 Apr 2022
	Machine Age	hrs	Client Info		2646	2173	1682
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	7	8	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>30	1	2	1
	Lead	ppm	ASTM D5185m	>40	<1	<1	1
	Copper	ppm	ASTM D5185m	>20	4	10	67
	Tin	ppm	ASTM D5185m	>20	1	1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
	Fuel	%	ASTM D3524	>3.0	<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	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.0	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.6	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 The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m		3	3	2
	Boron	ppm	ASTM D5185m		2	3	11
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	3	3
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		44	43	53
	Calcium	ppm	ASTM D5185m		2314	2278	2304
	Phosphorus	ppm	ASTM D5185m		978	810	882
	Zinc	ppm	ASTM D5185m		1083	1065	1071
	Sulfur	ppm	ASTM D5185m		3872	4106	3270
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.4	10.2	11.0
	Base Number (BN)	mg KOH/g	ASTM D2896		6.6	8.0	6.7
	Vice @ 100%	- 01					44.0

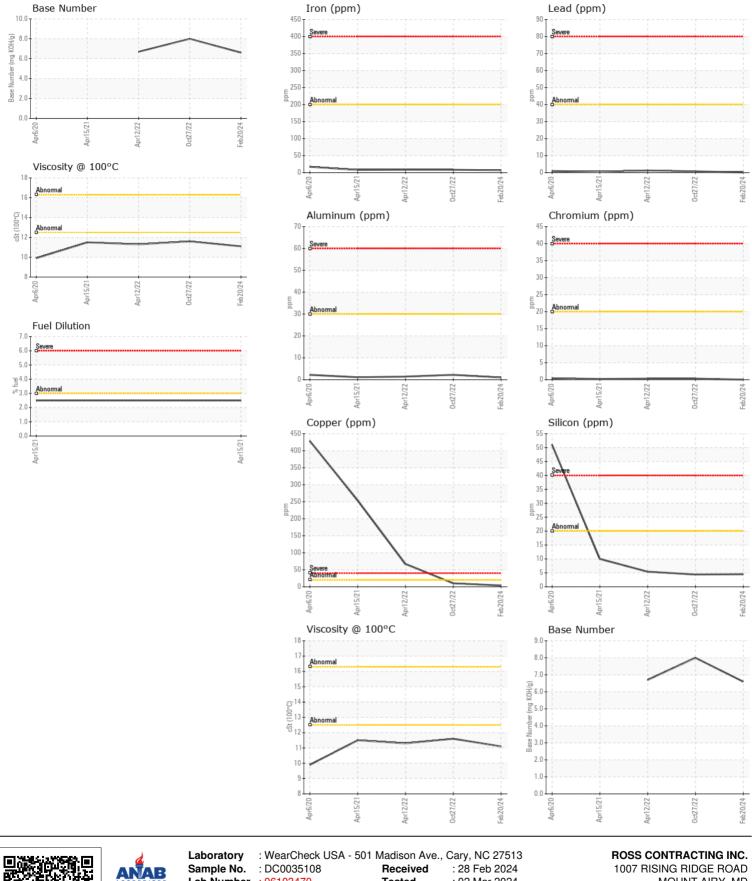
Visc @ 100°C cSt

ASTM D445

11.6

11.1

11.3



: DC0035108 Received : 28 Feb 2024 1007 RISING RIDGE ROAD Sample No. Lab Number : 06103470 MOUNT AIRY, MD Tested : 02 Mar 2024 Unique Number : 10901700 : 02 Mar 2024 - Don Baldridge US 21771 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: JONATHAN KUENTZ Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jonathank@rosscontracting.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)831-5500 F: (301)831-5900 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)