

Comp Die Fluid

## Machine Id VOLVO A40G 353276

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (13 GAL)

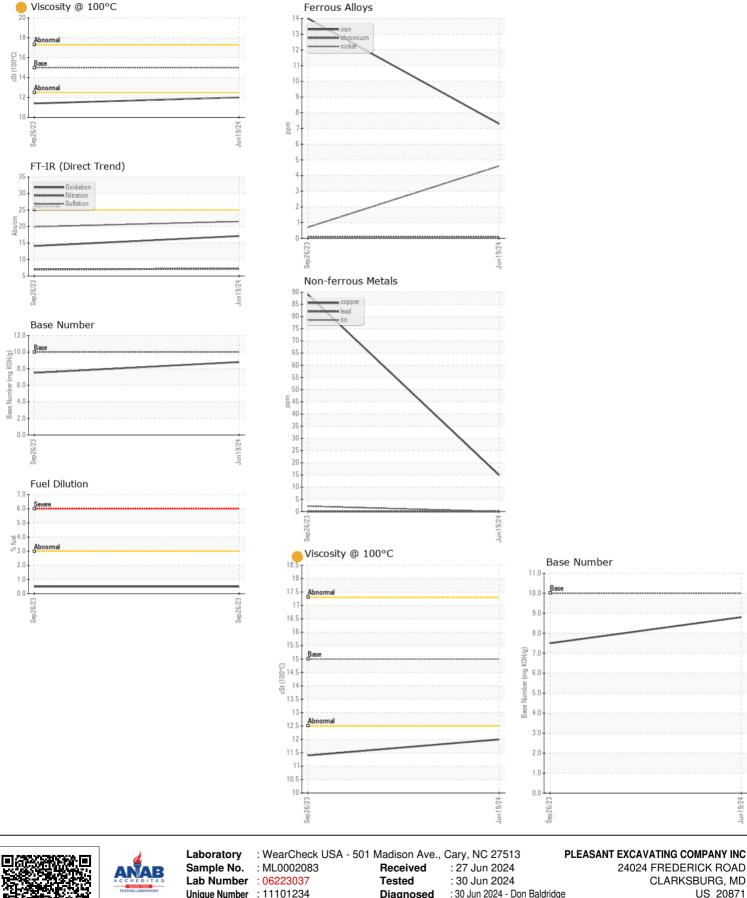
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ML0002083	VCP426097	
	Sample Date		Client Info		19 Jun 2024	26 Sep 2023	
	Machine Age	hrs	Client Info		1102	568	
	Oil Age	hrs	Client Info		534	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ATTENTION	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>200	7	14	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m		5	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m		3	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		15	<b>A</b> 89	
	Tin	ppm	ASTM D5185m	>20	0	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	20	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	3	
	Fuel	%	ASTM D3524	>3.0	<1.0	0.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.1 7.0	
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.2 21.5	19.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	34	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		140	47	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		76	46	
	Manganese	ppm	ASTM D5185m		1	3	
	Magnesium	ppm	ASTM D5185m		583	300	
	Calcium	ppm	ASTM D5185m		1718	1793	
	Phosphorus	ppm	ASTM D5185m		994	1038	
	Zinc	ppm	ASTM D5185m		1207	1253	
	Sulfur	ppm	ASTM D5185m		3796	3665	
	Oxidation	Abs/.1mm	*ASTM D7414		17.1	14.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	10	8.8	7.5	

Visc @ 100°C cSt

ASTM D445 15.0

12.0

11.4



Unique Number : 11101234 Diagnosed : 30 Jun 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, TBN) Certificate L2367 HTRENT@PLEASANTS.ORG 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact: H TRENT

T: (301)252-5635

F: