WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Area

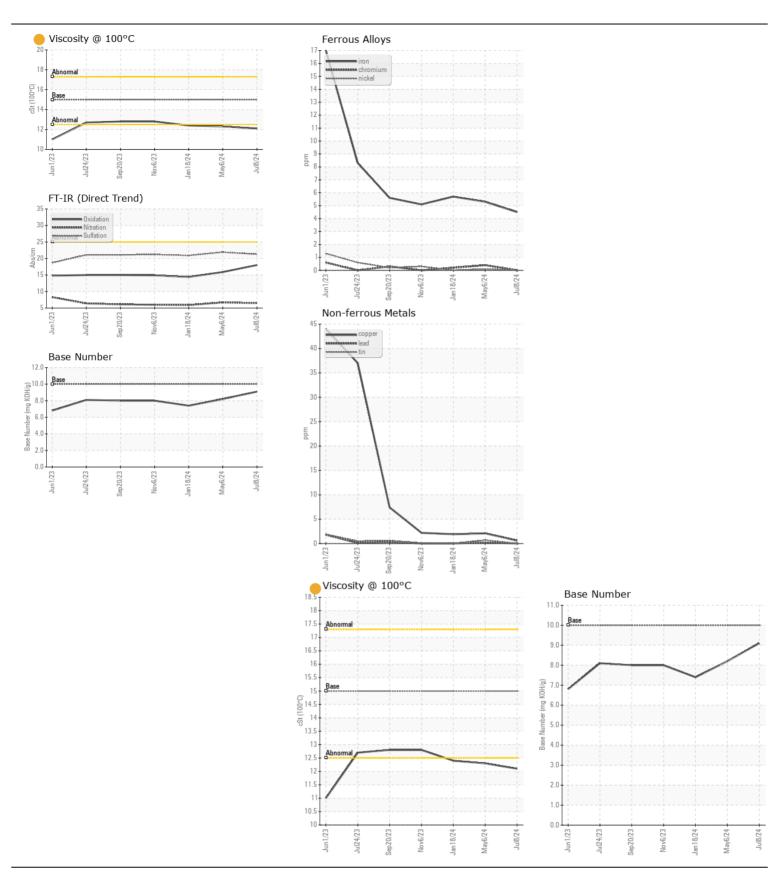
[W/O 11076]

## **VOLVO A30G 753127**



VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (10 GAL)

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (10 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0002062	ML0001342	VCP447913
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		08 Jul 2024	06 May 2024	18 Jan 2024
	Machine Age	hrs	Client Info		1895	1636	1291
	Oil Age	hrs	Client Info		259	1636	0
	Filter Age	hrs	Client Info		259	1636	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	4	5	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	2
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>30	1	3	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>20	<1	2	2
	Tin	ppm	ASTM D5185m	>20	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	6	4
	Potassium	ppm	ASTM D5185m	>20	0	2	0
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>3.0	<1.0	<1.0	0.3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.7	5.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.9	20.9
	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		3	0	1
	Boron	ppm	ASTM D5185m	2.5	93	407	412
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	0	2	<1
	Molybdenum	ppm	ASTM D5185m	0.7	81	115	87
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	500	556	417
	Calcium	ppm	ASTM D5185m		1663	1489	1419
	Phosphorus	ppm	ASTM D5185m	935	871	895	1087
	Zinc	ppm	ASTM D5185m	1223	967	1005	1291
	Sulfur	ppm	ASTM D5185m	4079	3029	3056	3458
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	15.9	14.4
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.1	8.2	7.4
	Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.1</b>	12.3	12.4







Certificate L2367

Laboratory Sample No.

: ML0002062 Lab Number : 06234273 Unique Number : 11123107

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 11 Jul 2024 **Tested** Diagnosed

: 12 Jul 2024 : 14 Jul 2024 - Don Baldridge

PLEASANT EXCAVATING COMPANY INC 24024 FREDERICK ROAD

CLARKSBURG, MD US 20871

Contact: H TRENT HTRENT@PLEASANTS.ORG T: (301)252-5635

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.

Test Package : CONST (Additional Tests: TBN)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: