WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

[G08826]

6 6	VOLVO A40D 70043 Component Diesel Engine Fluid {not provided} (GAL)
RECOMMENDA	ATION

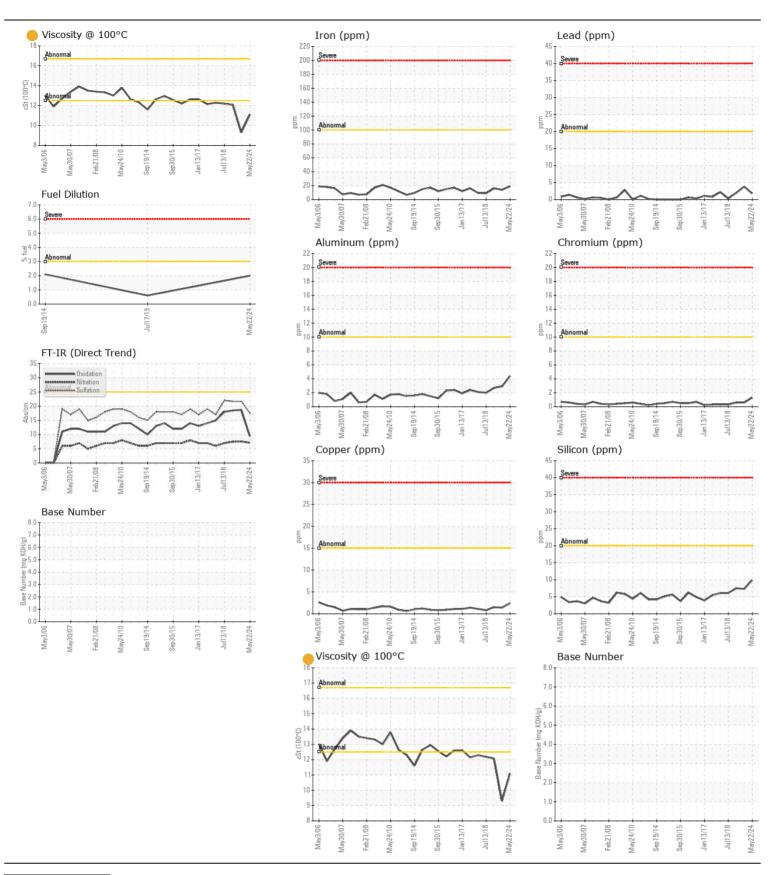
fluid {not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP453762	VCP232717	VCP232117
Resample at the next service interval to monitor. Please specify the	Sample Date		Client Info		22 May 2024	17 Jul 2019	29 Jan 2019
brand, type, and viscosity of the oil on your next sample.	Machine Age	hrs	Client Info		15722	0	11200
	Oil Age	hrs	Client Info		0	0	400
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ATTENTION	ATTENTION	NORMAL
WEAD			AOTH DE LOS	400		4.4	40
WEAR	Iron	ppm	ASTM D5185m		19	14	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	1	<1	<1
	Titanium	ppm	ASTM D5185m	0	5	<1	2
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m	-	2	4	2
	Copper	ppm	ASTM D5185m		2	1	2
	Tin	ppm	ASTM D5185m	>10	1	0	0
	Vanadium White Metal	ppm	ASTM D5185m	NONE	<1 NONE	0	0 NONE
		scalar	*Visual	_	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	10	7	8
	Potassium	ppm	ASTM D5185m	>20	3	35	0
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D3524	>3.0	2.0	0.6	<1.0
the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG

	Potassium	ppm	ASTM D5185m	>20	3	35	0
	Fuel	%	ASTM D3524	>3.0	2.0	0.6	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.8	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.6	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	21.7	21.7
	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	>0.1	NEG	NEG	NEG
-							
	Sodium	ppm	ASTM D5185m		3	25	17
	Boron	ppm	ASTM D5185m		31	30	33

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	25	17
Boron	ppm	ASTM D5185m		31	30	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		15	44	43
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		193	550	549
Calcium	ppm	ASTM D5185m		2654	1724	1732
Phosphorus	ppm	ASTM D5185m		1075	738	756
Zinc	ppm	ASTM D5185m		1284	864	873
Sulfur	ppm	ASTM D5185m		4873	2134	2278
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.4	18.7	18.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.2		
Visc @ 100°C	cSt	ASTM D445		11.1	9.3	12.06







Certificate L2367

Laboratory Sample No.

Lab Number : 06193665

: VCP453762 Unique Number : 11050417

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

: 29 May 2024 Diagnosed

: 31 May 2024

: 31 May 2024 - Don Baldridge

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: KEN LARDI klardi@blenheimconstruction.com

T: (856)728-8880 F: (856)728-8866

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)

BLENHEIM CONSTRUCTION

302 INDEPENDENCE BLVD

SICKLERVILLE, NJ

US 08081