WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

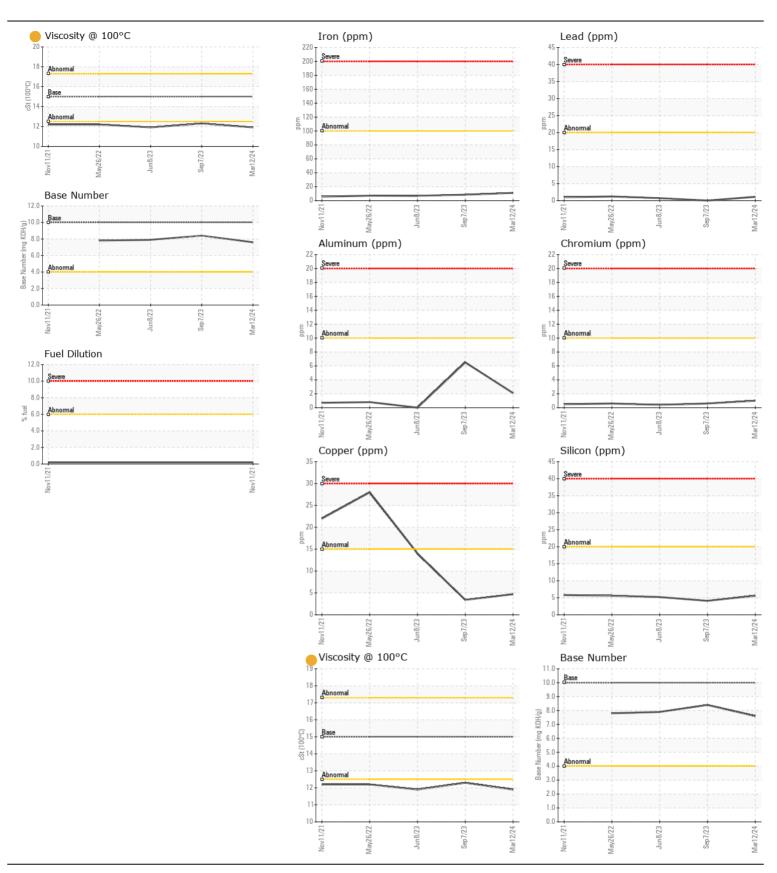


Area [674480]

VOLVO EC480E 314409

Component Diesel Engine

RECOMMENDATION	Test	UOM	6-3 (G	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP445315	VCP416924	,
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		12 Mar 2024	07 Sep 2023	08 Jun 2023
	Machine Age	hrs	Client Info		3616	3073	2589
	Oil Age	hrs	Client Info		500	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	nnm	ASTM D5185m	<100	11	8	7
WLAN	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	<1	<1
	Titanium	ppm	ASTM D5185m	>10	<1	0	0
	Silver		ASTM D5185m	\2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	6	0
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		5	3	14
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m	710	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	3
	Fuel	%	ASTM D3524		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.6	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	19.5	20.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
<u> </u>	Liliuisilleu vvalei	Scalai	Visuai	>0.1			INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	0
The state of the s	Boron	ppm	ASTM D5185m	2.5	1	0	4
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	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	60	58	59
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	955	960	859
	Calcium	ppm	ASTM D5185m		1120	1054	1149
	Phosphorus	ppm	ASTM D5185m		1101	1017	975
	Zinc	ppm	ASTM D5185m		1258	1238	1160
	Sulfur	ppm	ASTM D5185m		3461	3542	2826
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	14.3	17.0
	Base Number (BN)	mg KOH/g	ASTM D2896		7.6	8.4	7.9
	Visc @ 100°C	cSt	ASTM D445	15.0	11.9	12.3	11.9







Laboratory Sample No.

Lab Number : 06123415 Unique Number: 10937566

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP445315 Received : 20 Mar 2024 **Tested** : 22 Mar 2024

Diagnosed : 22 Mar 2024 - Don Baldridge Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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)

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