WEAR CONTAMINATION **FLUID CONDITION**

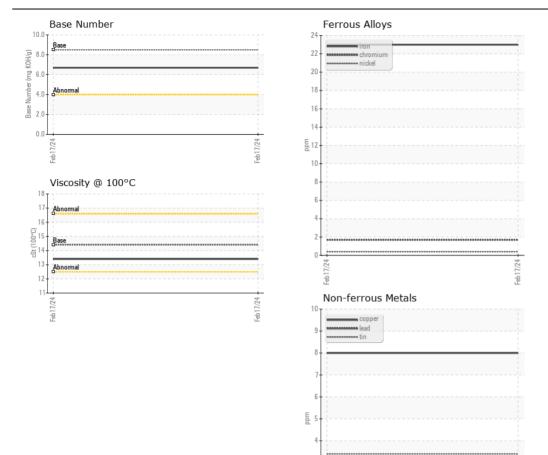
NORMAL NORMAL NORMAL

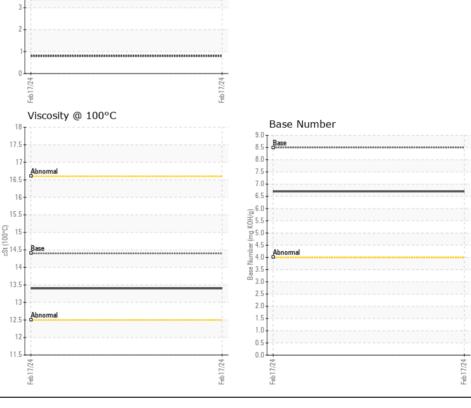


VOLVO EC200EL 3036 (S/N VOLVO)

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W	40 (5 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		CL0005179		
	Sample Date		Client Info		17 Feb 2024		
	Machine Age	hrs	Client Info		280		
	Oil Age	hrs	Client Info		280		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	23		
WEAIT	Chromium	ppm	ASTM D5185m		2		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	710	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		8		
	Tin	ppm	ASTM D5185m		3		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTANUNATION	0:1:		AOTM DE CO				
CONTAMINATION	Silicon	ppm		>20	22		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel		WC Method	>6.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	6.6		
	Sulfation	Abs/.1mm	*ASTM D7415		16.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>158	2		
	Boron	ppm	ASTM D5185m	250	4		
	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m	100	10		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m	450	50		
	Calcium	ppm	ASTM D5185m	3000	1993		
	Phosphorus	ppm	ASTM D5185m	1150	823		
	Zinc	ppm	ASTM D5185m	1350	953		
	Sulfur	ppm	ASTM D5185m	4250	3355		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4		









Certificate L2367

Laboratory Sample No.

Lab Number : 06097380

Unique Number : 10890233

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : CL0005179

Received **Tested**

: 23 Feb 2024 Diagnosed : 23 Feb 2024 - Wes Davis

: 22 Feb 2024

Test Package : CONST (Additional Tests: 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)

PURCELL CONSTRUCTION

3100 HIGH RIDGE RD CHARLOTTE, NC US 28270

Contact: BEN MILKE ben@purcellconst.com

T:

F: