

Machine Ic

RECOMMENDATION

## VOLVO EC250E 314064 Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

## CONTAMINATION

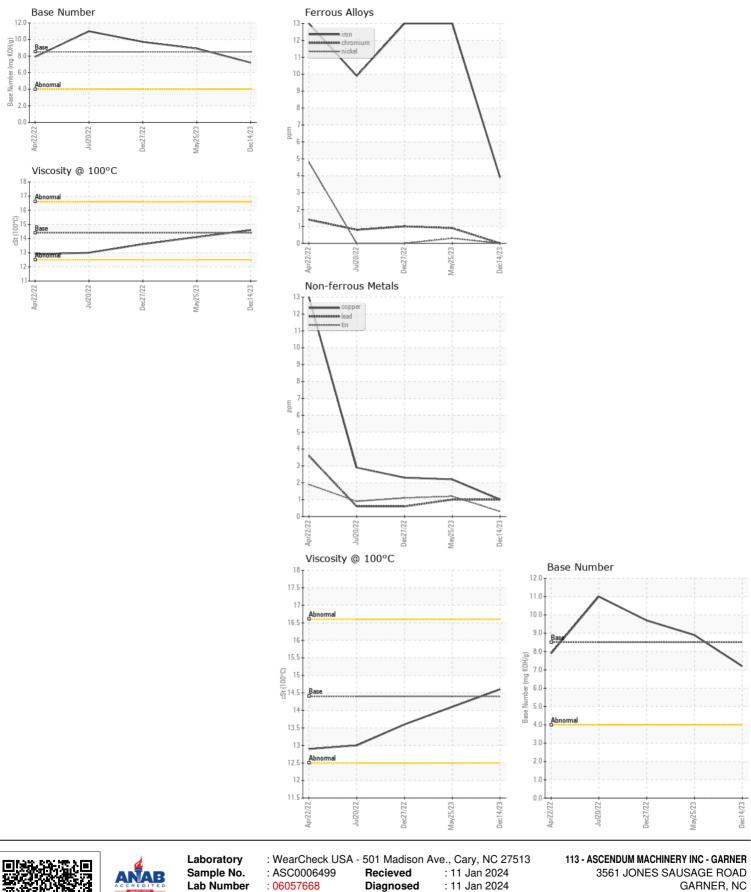
**FLUID CONDITION** 

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0006499	VCP391470	VCP395324
	Sample Date		Client Info		14 Dec 2023	25 May 2023	27 Dec 2022
	Machine Age	hrs	Client Info		3507	2024	1732
	Oil Age	hrs	Client Info		1483	0	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				NORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>100	4	13	13
	Chromium	ppm	ASTM D5185m	>10	0	<1	1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	3	4	6
	Lead	ppm	ASTM D5185m	>20	1	1	<1
	Copper	ppm	ASTM D5185m	>15	1	2	2
	Tin	ppm	ASTM D5185m	>10	<1	1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	nom	ASTM D5185m	>20	4	5	7
	Potassium	ppm ppm	ASTM D5185m	>20	-4 11	3	4
	Fuel	ppiii	WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.0	NEG	NEG	NEG
	Glycol		WC Method	20.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.1	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	20.4	20.3
	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	>216	2	0	<1
	Boron	ppm	ASTM D5185m	250	98	4	95
	Barium	ppm	ASTM D5185m	10	0	2	0
	Molybdenum	ppm	ASTM D5185m	100	17	62	56
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	205	931	790
	Calcium	ppm	ASTM D5185m	3000	2030	1222	1379
	Phosphorus	ppm	ASTM D5185m	1150	988	1032	996
	Zinc	ppm	ASTM D5185m	1350	1325	1266	1207
	Sulfur	ppm	ASTM D5185m	4250	3280	3319	3684
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	17.2	17.4
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	8.9	9.7
	Visc @ 100°C	cSt	ASTM D445	14.4	14.6	14.1	13.6



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Test Package : CONST (Additional Tests: TBN) Contact: TRENT BROADWELL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. trent.broadwell@ascendummachinery.com \* - 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)

Diagnostician

: Wes Davis

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Unique Number

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