WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

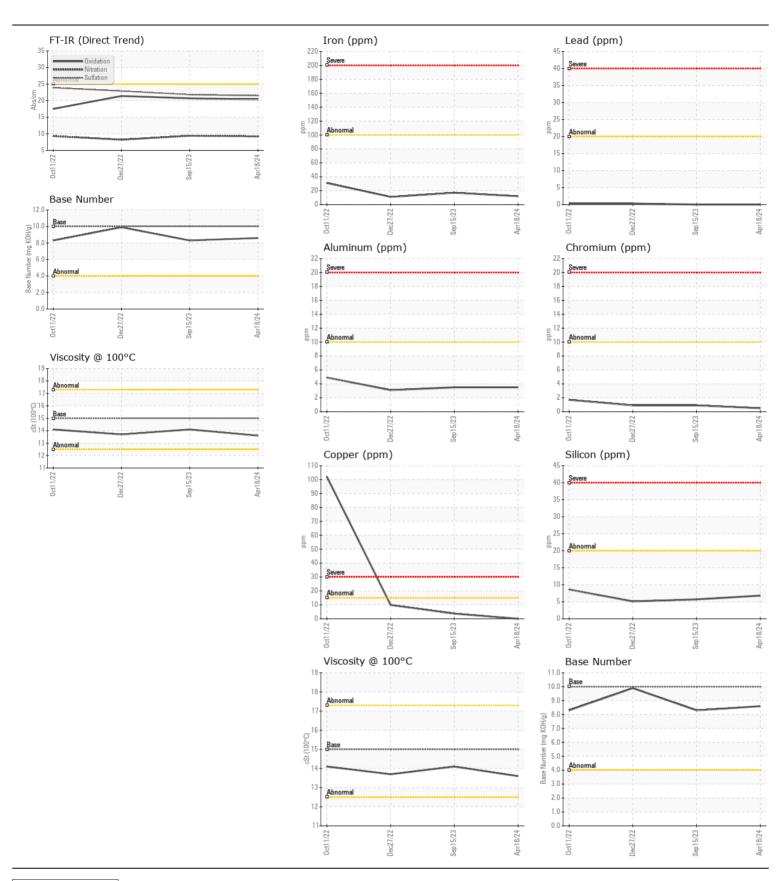


[25416]

VOLVO ECR88D 217512

Diesel Engine

			S-3 (C	· · · · · · · · · · · · · · · · · · ·			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP455217	VCP424635	VCP371895
	Sample Date		Client Info		18 Apr 2024	15 Sep 2023	27 Dec 2022
	Machine Age	hrs	Client Info		1979	1460	902
	Oil Age	hrs	Client Info		500	500	1000
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	17	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	4	10
	Tin	ppm	ASTM D5185m		<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
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	7	6	5
	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.4	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.8	22.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	3
	Boron	ppm	ASTM D5185m	2.5	23	15	41
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	50	53	44
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	518	502	516
	Calcium	ppm	ASTM D5185m	2057	1739	1918	1921
	Phosphorus	ppm	ASTM D5185m	935	981	1082	978
	Zinc	ppm	ASTM D5185m	1223	1179	1297	1119
	Sulfur	ppm	ASTM D5185m		3265	3347	3454
	Oxidation	Abs/.1mm	*ASTM D7414		20.4	20.7	21.4
	Base Number (BN)	mg KOH/g	ASTM D2896	10	8.6	8.3	9.9
	Dasc Hamber (DIA)						





Certificate L2367

Laboratory Sample No.

Lab Number : 06157347

: VCP455217 Unique Number : 10992770

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

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 24 Apr 2024 : 24 Apr 2024 - Wes Davis

: 23 Apr 2024

OL THOMPSON 3691 PARAMOUNT DR NORTH CHARLESTON, SC US 29405

Contact: G. GARRISON ggarrison@oltc.com T:

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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