WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

, J

[993] Machine Id

VOLVO L90H 626329

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RESSMINERBATION	Sample Number		Client Info	21111071011	VCP438062	VCP295345	VCP33760
Resample at the next service interval to monitor.	Sample Date		Client Info		20 May 2024	24 Jul 2023	08 Dec 202
	Machine Age	hrs	Client Info		3525	1943	826
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
A/E A D			AOTM DE LOE			4-	
WEAR	Iron	ppm	ASTM D5185m		12	17	32
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	1	2
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium Silver	ppm	ASTM D5185m	. 0	<1	0	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m		1 4	3	11
	Lead	ppm	ASTM D5185m		<1	<1	1
	Copper	ppm	ASTM D5185m		2	4	10
	Tin	ppm	ASTM D5185m		2	1	3
	Vanadium	ppm	ASTM D5185m	720	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	7	19
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	2
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.3 9.1	0.2 8.2
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	8.0 22.3	20.8	23.4
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	4	3	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		33	23	40
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		41	37	42
	Manganese	ppm	ASTM D5185m		1	<1	5
	Magnesium	ppm	ASTM D5185m		503	472	592
	Calcium	ppm	ASTM D5185m		1697	1879	1656
	Phosphorus	ppm	ASTM D5185m		967	949	994
	Zinc	ppm	ASTM D5185m		1159	1165	1172
	Sulfur	ppm Abs/1mm	ASTM D5185m	\ OE	3293	3456	4124
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>20	21.1 10.0	18.8 9.1	21.2
	Dase Mullipel (DIV)	nig KON/g	10 LINI D5030		10.0	9.1	11.0

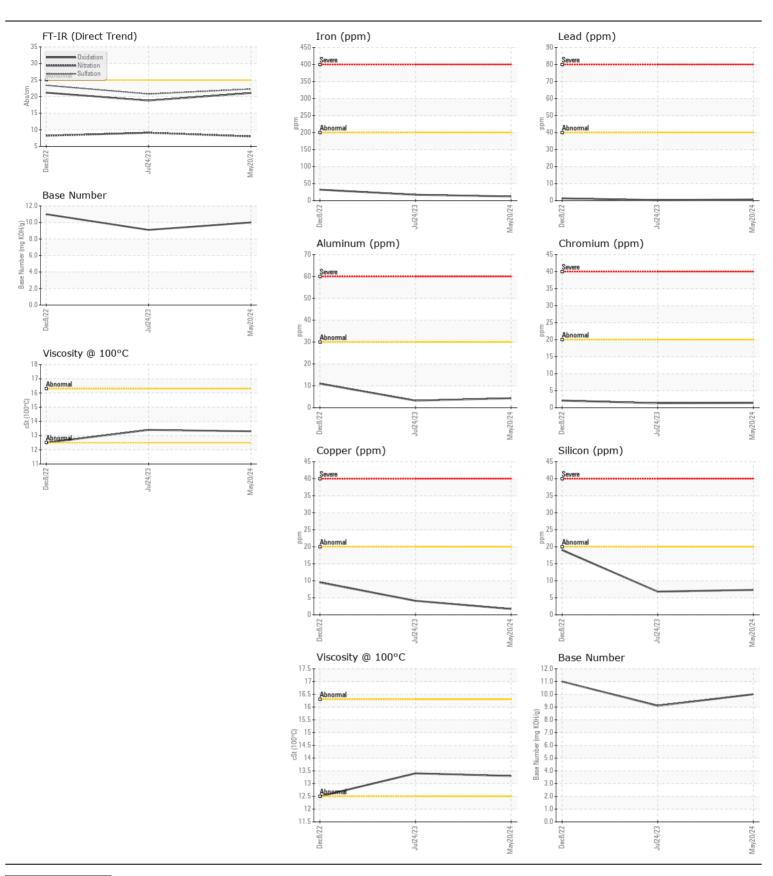
Visc @ 100°C cSt

ASTM D445

13.4

13.3

12.5





Laboratory Sample No.

Lab Number : 06193666

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP438062

Received **Tested** Unique Number : 11050418

: 29 May 2024 : 30 May 2024 Diagnosed : 30 May 2024 - Wes Davis

VCES- VOLVO CONSTRUCTION EQUIPMENT 12345 MAPLEVIEW STREET

LAKESIDE, CA US 92040 Contact: Mark Stewart

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

mark.stewart@vcesvolvo.com T: X:

* - 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)

F: X: