

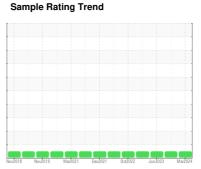
OIL ANALYSIS REPORT

[W/O 10495] VOLVO L90H 623915 Component



Diesel Engine

CHEVRON 15W40 (5 GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

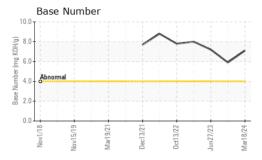
Fluid Condition

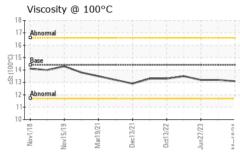
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000067	VCP413935	VCP408880
Sample Date		Client Info		18 Mar 2024	18 Oct 2023	27 Jun 2023
Machine Age	hrs	Client Info		10883	10514	9926
Oil Age	hrs	Client Info		369	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status		Onoric iriio		NORMAL	NORMAL	NORMAL
-						
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	2	5
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		2	3	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		6	3	4
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium		ASTM D5185m	>10	<1	0	0
	ppm			0		0
Cadmium	ppm	ASTM D5185m			0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		380	336	310
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		92	85	97
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		412	409	445
Calcium	ppm	ASTM D5185m		1442	1350	1402
Phosphorus	ppm	ASTM D5185m		1071	977	958
Zinc	ppm	ASTM D5185m		1279	1257	1117
Sulfur	ppm	ASTM D5185m		4043	3312	3082
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	5	4
Sodium	ppm	ASTM D5185m	>50	2	3	0
Potassium	ppm	ASTM D5185m		0	0	2
INFRA-RED		method	limit/base	current	history1	history2
	%					·
Soot %		*ASTM D7844	>3	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.1	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.0	22.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	15.2	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	5.9	7.2



OIL ANALYSIS REPORT

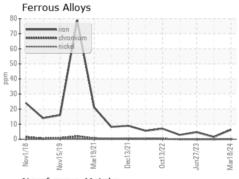


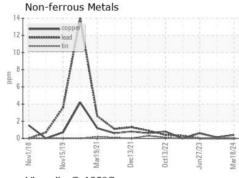


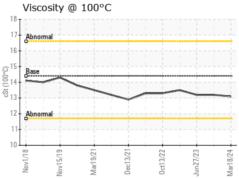
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

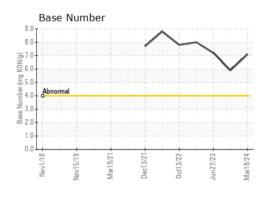
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.2	13.2

GRAPHS













Laboratory Sample No. Lab Number : 06122949 Unique Number : 10937100

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0000067

Received **Tested** Diagnosed

: 19 Mar 2024 : 20 Mar 2024

: 21 Mar 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE 4601 WASHINGTON BOULEVARD

BALTIMORE, MD US 21227

Contact: MARK CIULLA

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

mciulla@mcclung-logan.com T: (410)242-6500

* - 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: (410)242-7835