

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

VOLVO L 90H-2 (S/N 623778)

Rear Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

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.

		May2020	Nov2020 Aug2021	Apr2022 Apr2023	Mar 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104394	PCA0098371	PCA0090599
Sample Date		Client Info		18 Mar 2024	25 Oct 2023	07 Apr 2023
Machine Age	hrs	Client Info		3656	3408	3183
Oil Age	hrs	Client Info		248	225	283
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	6	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	4	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	17	3	5
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	27	57	59
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	450	384	932	941
Calcium	ppm	ASTM D5185m	3000	1744	1044	1067
Phosphorus	ppm	ASTM D5185m	1150	945	1036	1006
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1100 3957	1233 3114	1244 3324
CONTAMINAN	ppm	method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m	>25	1	<1	4 <1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.9	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.8	17.4	16.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	13.7	13.1
Base Number (BN)	mg KOH/g		8.5	9.18	9.25	10.12
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Certificate 12367

Laboratory Sample No.

Lab Number : 06140690 Unique Number : 10965498

Test Package : MOB 2

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0104394

Viscosity @ 100°C

Received : 05 Apr 2024 **Tested** : 08 Apr 2024 Diagnosed

Apr7/23 -

: 08 Apr 2024 - Wes Davis

Mar18/24

(mg KOH/g)

0.0

Base Number

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Submitted By: JOHN LANG

Aug23/21

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

Apr1/22 -

Aug23/21.