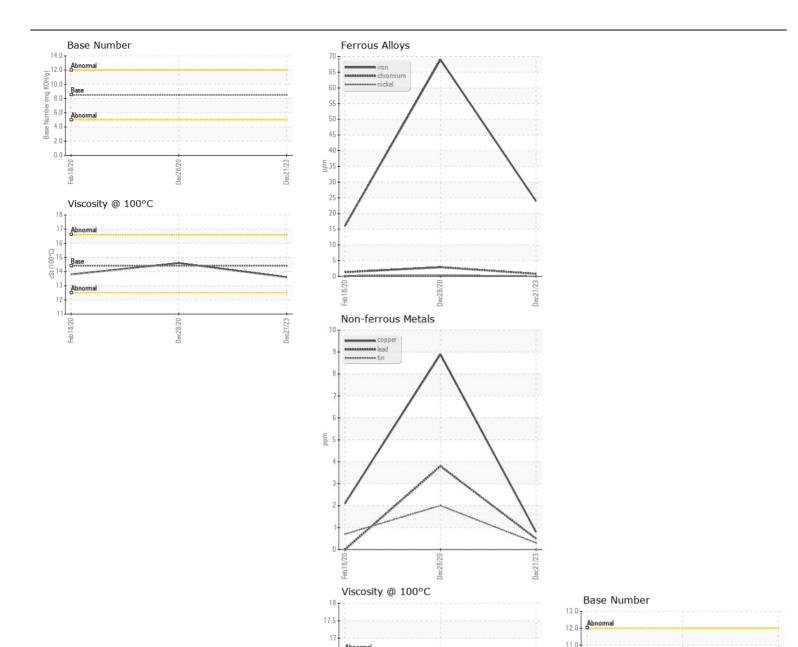


## **VOLVO L70H 623164**

Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0006235	VCP301260	
Resample at the next service interval to monitor.	Sample Date		Client Info		21 Dec 2023	28 Dec 2020	18 Feb 2020
	Machine Age	hrs	Client Info		11324	4464	2145
	Oil Age	hrs	Client Info		6860	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
WEAR	Iron	nnm	ASTM D5185m	> 200	24	69	16
WEAR	Chromium	ppm	ASTM D5185m		<1	3	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	/5	0	4	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		5	11	8
	Lead	ppm	ASTM D5185m		<1	4	0
	Copper	ppm	ASTM D5185m		<1	9	2
	Tin	ppm	ASTM D5185m	>20	<1	2	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	11	9	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	2	2
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% A b a /ava	*ASTM D7844		0.8	1.6	0.4
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	13.3 30.2	14.5 30.1	9.5
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		33	29	36
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	17	42	35
	Manganese	ppm	ASTM D5185m	1=6	0	2	<1
	Magnesium	ppm	ASTM D5185m		189	604	560
	Calcium	ppm	ASTM D5185m		1965	1972	1491
	Phosphorus	ppm	ASTM D5185m		941	922	673
	Zinc	ppm	ASTM D5185m		1261	1184	748
	Sulfur	ppm Abo/1mm	ASTM D5185m		3069	2722	2475
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		29.0 5.8	28.7	18.6
	Visc @ 100°C	mg KOH/g cSt	ASTM D2696 ASTM D445		13.6	14.6	13.8
	V130 @ 100 C	COL	AO I IVI D440	17.4	13.0	17.0	10.0







Laboratory Sample No. Lab Number

**Unique Number** 

: ASC0006235 : 06057660 : 10823609

16.

15.5

ਲੂੱ 14.5

13.

12.

11.5

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

: 11 Jan 2024 Diagnosed

: 12 Jan 2024

10.0

6.0 5.0

0.0

(mg KOH/g)

Diagnostician : Sean Felton

Test Package : CONST ( Additional Tests: TBN ) 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)

**ATLAS ORGANICS** 2115 EAST CLUB BLVD

DURHAM, NC US 27704

Contact: Service Manager

T:

F: