



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L120H 632903
Component
Diesel Engine
Fluid
VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007654	VCP321472	VCP316875
Sample Date		Client Info		10 May 2024	19 Aug 2021	13 Jul 2021
Machine Age	hrs	Client Info		2995	566	355
Oil Age	hrs	Client Info		2429	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	28	23	19
Chromium	ppm	ASTM D5185m	>10	1	4	3
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	18	39	35
Lead	ppm	ASTM D5185m	>20	2	2	5
Copper	ppm	ASTM D5185m	>15	3	11	11
Tin	ppm	ASTM D5185m	>10	<1	0	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

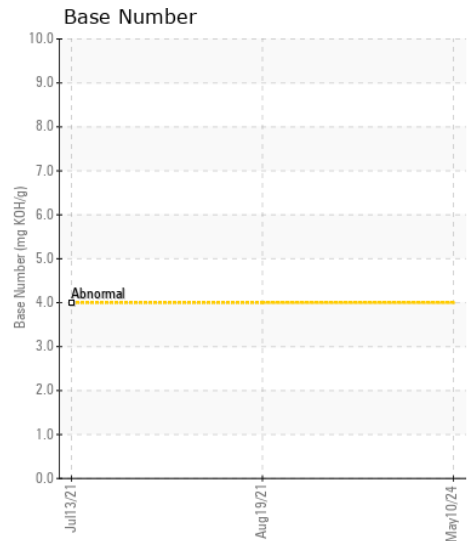
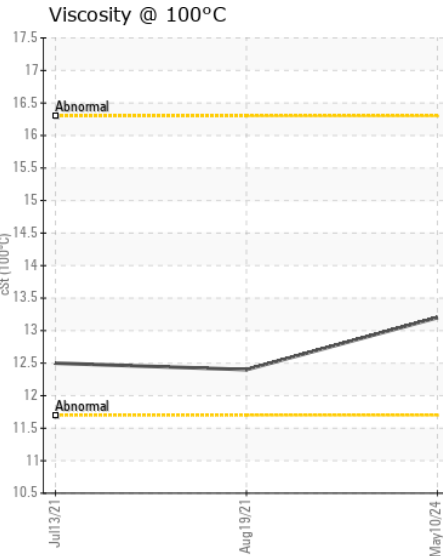
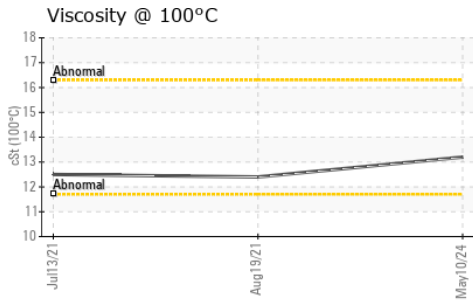
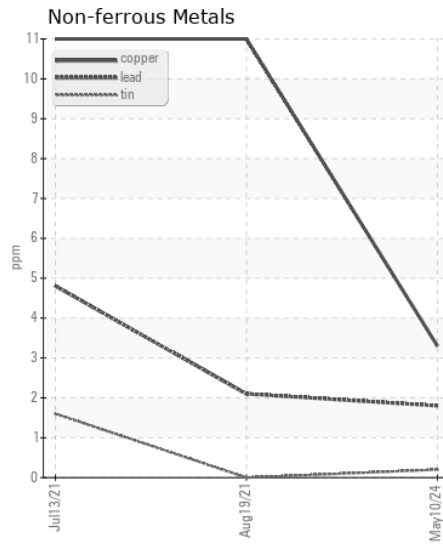
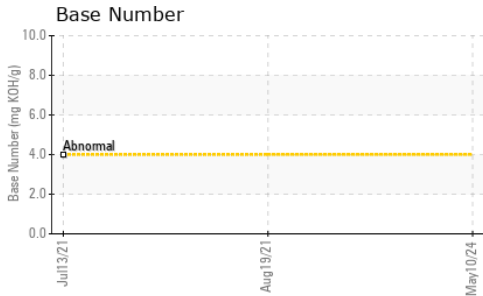
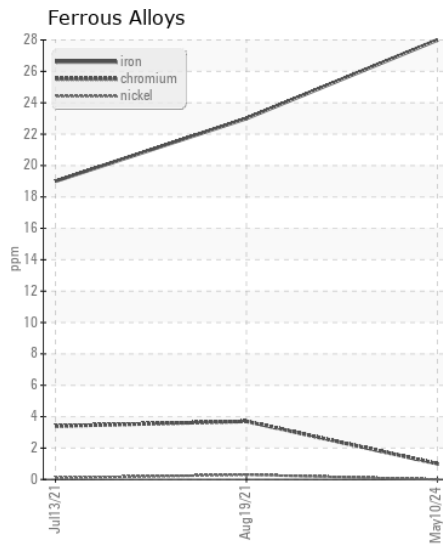
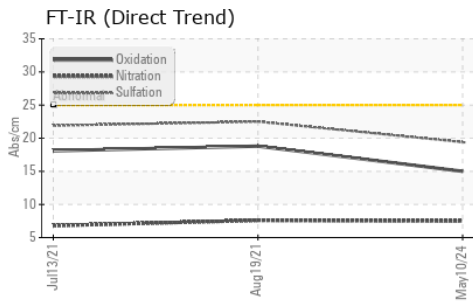
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	7	13	12
Potassium	ppm	ASTM D5185m	>20	2	5	3
Fuel		WC Method	>6.0	<1.0	0.2	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.6	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	22.5	21.9
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		2	4	4
Boron	ppm	ASTM D5185m		35	38	65
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		271	36	41
Manganese	ppm	ASTM D5185m		0	3	3
Magnesium	ppm	ASTM D5185m		926	624	626
Calcium	ppm	ASTM D5185m		1154	1365	1391
Phosphorus	ppm	ASTM D5185m		1183	873	949
Zinc	ppm	ASTM D5185m		1390	1016	1049
Sulfur	ppm	ASTM D5185m		3494	3218	3158
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	18.8	18.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	---	---
Visc @ 100°C	cSt	ASTM D445		13.2	12.4	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007654 **Received** : 26 Jun 2024
Lab Number : 06220798 **Tested** : 26 Jun 2024
Unique Number : 11098995 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

EDWARD WOOD PRODUCTS
 PO BOX 219
 MARSHVILLE, NC
 US 28103
 Contact: Service Manager

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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F: