



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L120H 633410

Component
Diesel Engine

Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0004825	VCP424001	---
Sample Date		Client Info		16 Apr 2024	18 Sep 2023	---
Machine Age	hrs	Client Info		2365	581	---
Oil Age	hrs	Client Info		500	0	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	29	---
Chromium	ppm	ASTM D5185m	>10	<1	4	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>10	8	64	---
Lead	ppm	ASTM D5185m	>20	0	3	---
Copper	ppm	ASTM D5185m	>15	4	15	---
Tin	ppm	ASTM D5185m	>10	<1	3	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

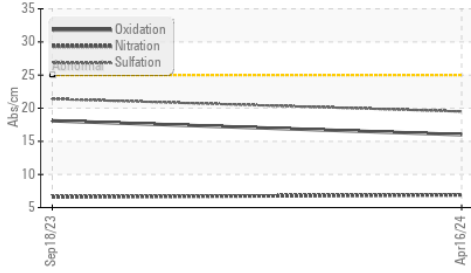
Silicon	ppm	ASTM D5185m	>20	4	12	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Fuel		WC Method	>6.0	<1.0	0.3	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	21.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

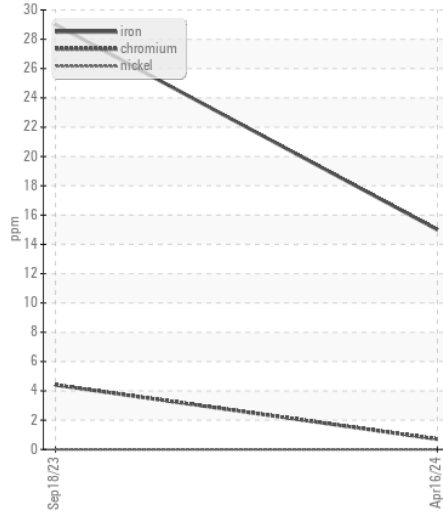
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	4	---
Boron	ppm	ASTM D5185m	2.5	11	44	---
Barium	ppm	ASTM D5185m	0.0	<1	0	---
Molybdenum	ppm	ASTM D5185m	0.7	55	36	---
Manganese	ppm	ASTM D5185m	0.0	<1	3	---
Magnesium	ppm	ASTM D5185m	256	804	620	---
Calcium	ppm	ASTM D5185m	2057	1291	1571	---
Phosphorus	ppm	ASTM D5185m	935	1009	945	---
Zinc	ppm	ASTM D5185m	1223	1271	1158	---
Sulfur	ppm	ASTM D5185m	4079	3596	4345	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	18.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.3	9.9	---
Visc @ 100°C	cSt	ASTM D445	15.0	14.0	12.4	---

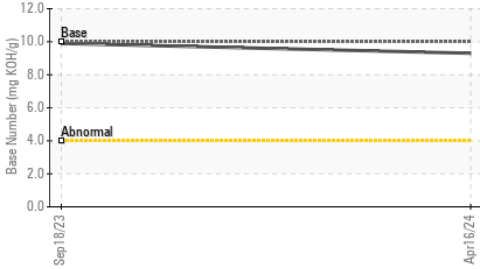
FT-IR (Direct Trend)



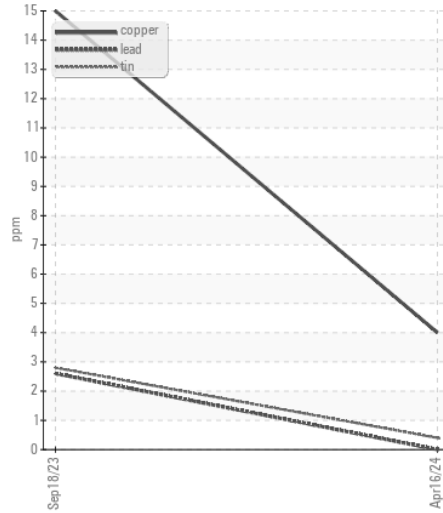
Ferrous Alloys



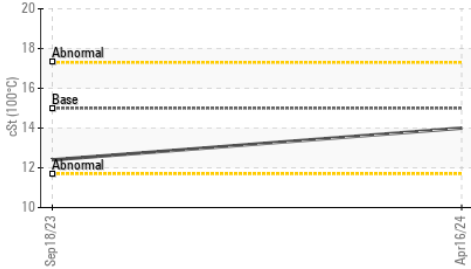
Base Number



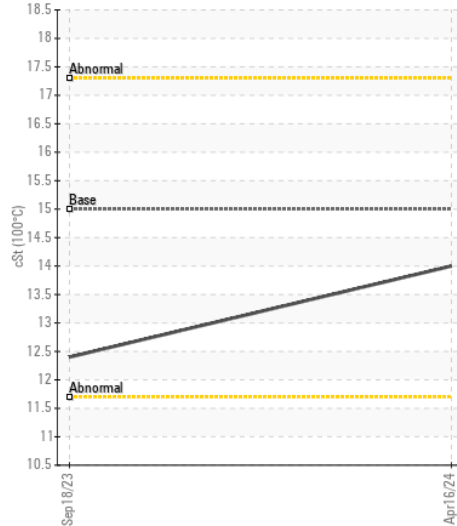
Non-ferrous Metals



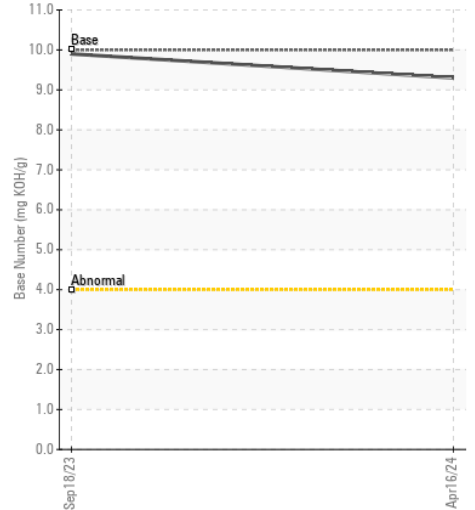
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : ASC0004825

Lab Number : 06157457

Unique Number : 10992880

Test Package : CONST (Additional Tests: TBN)

Received : 23 Apr 2024

Tested : 24 Apr 2024

Diagnosed : 24 Apr 2024 - Wes Davis

365 - ASCENDUM MACHINERY INC - SAVANNAH

54 MEDLINE DR

RICHMOND HILL, GA

US 31324

Contact: JESSE WILSON

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T:

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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