



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W/O 10981]
Machine Id
VOLVO A35G 340110
Component
Diesel Engine
Fluid
CHEVRON 15W40 (13 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002093	VCP388522	VCP371060
Sample Date		Client Info		17 Jun 2024	04 Dec 2023	06 Feb 2023
Machine Age	hrs	Client Info		8179	7486	6653
Oil Age	hrs	Client Info		693	0	0
Filter Age	hrs	Client Info		693	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	12	12	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	2	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	3
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	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.

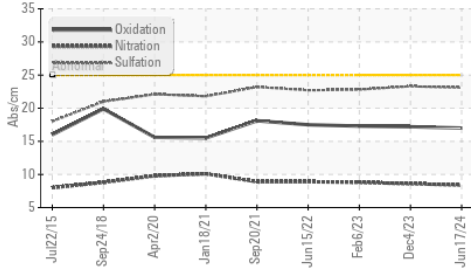
Silicon	ppm	ASTM D5185m	>25	6	6	5
Potassium	ppm	ASTM D5185m	>20	2	2	3
Fuel	%	ASTM D3524	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	23.3	22.8
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

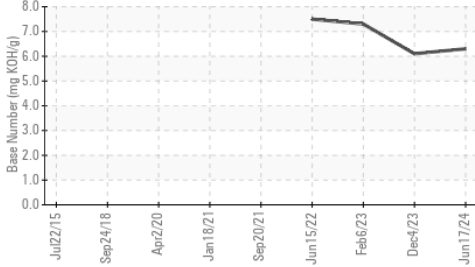
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>50	1	2	2
Boron	ppm	ASTM D5185m		245	281	280
Barium	ppm	ASTM D5185m		0	11	0
Molybdenum	ppm	ASTM D5185m		106	97	112
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		495	464	520
Calcium	ppm	ASTM D5185m		1467	1437	1442
Phosphorus	ppm	ASTM D5185m		993	909	796
Zinc	ppm	ASTM D5185m		1212	1132	978
Sulfur	ppm	ASTM D5185m		3077	3711	3165
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.2	17.3
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.1	7.3
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	12.4	12.5

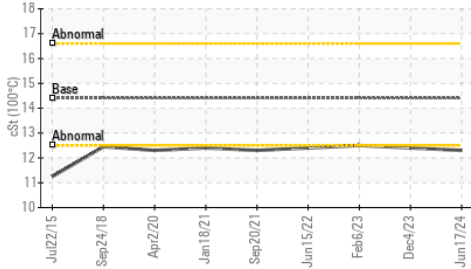
FT-IR (Direct Trend)



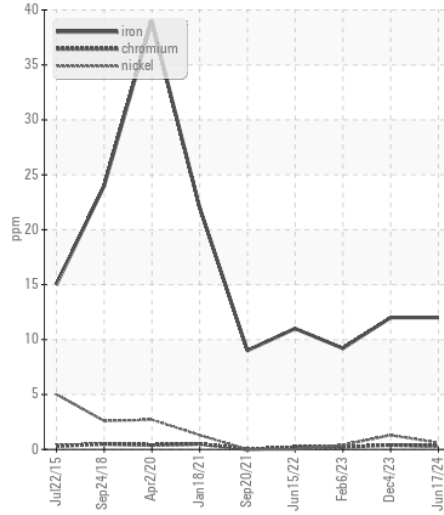
Base Number



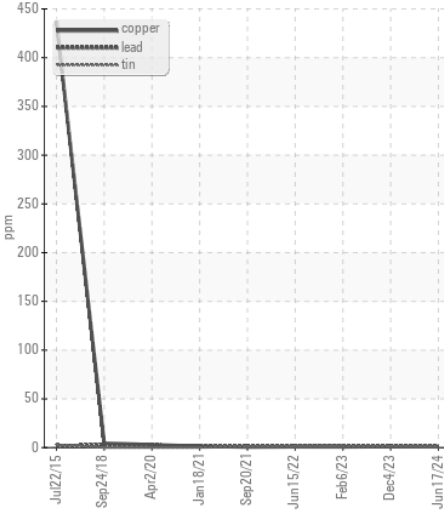
Viscosity @ 100°C



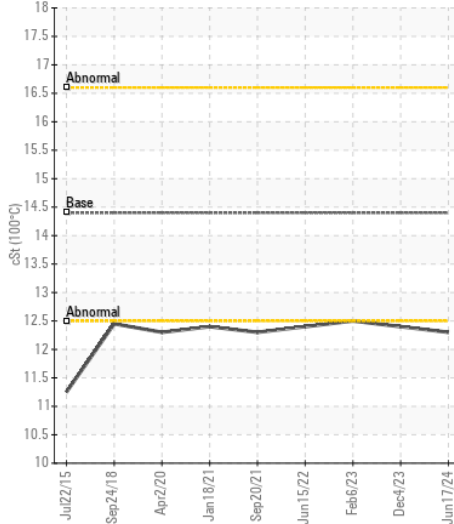
Ferrous Alloys



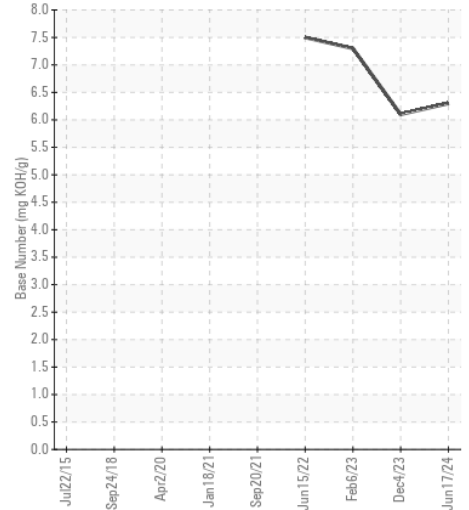
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002093 **Received** : 20 Jun 2024
Lab Number : 06216427 **Tested** : 23 Jun 2024
Unique Number : 11089291 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

CLEAN EARTH - WALDORF
 16301 GARDNER RD
 WALDORF, MD
 US 20601
 Contact: RICK FORD
 rford@harso.com

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)

T:
F: