



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
VOLVO A40G 352158
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001733	VCP408328	---
Sample Date		Client Info		19 Jun 2024	23 Aug 2023	---
Machine Age	hrs	Client Info		5225	4569	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	10	10	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		2	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	3	2	---
Lead	ppm	ASTM D5185m	>40	<1	1	---
Copper	ppm	ASTM D5185m	>20	1	2	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

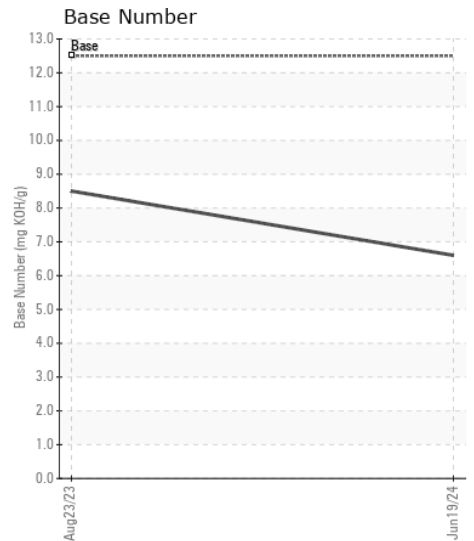
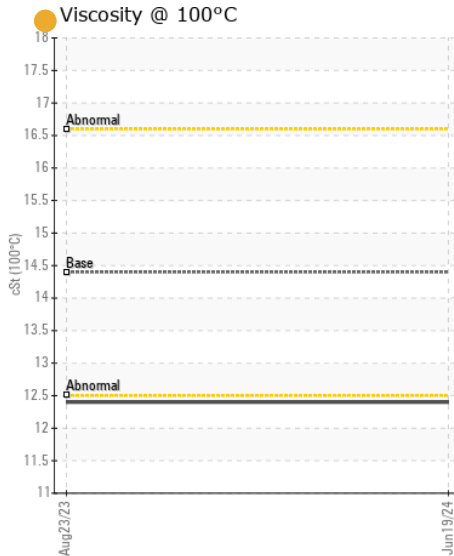
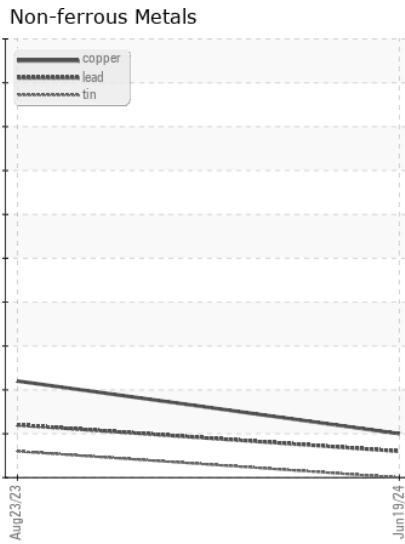
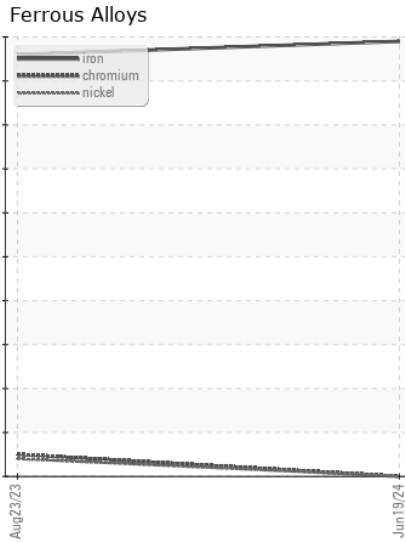
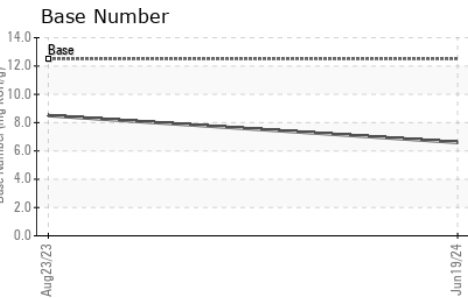
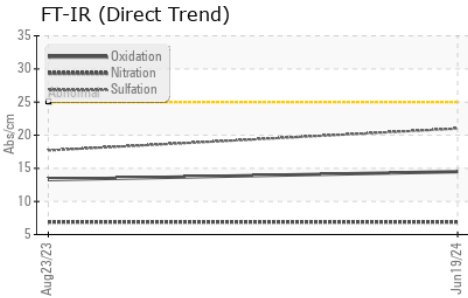
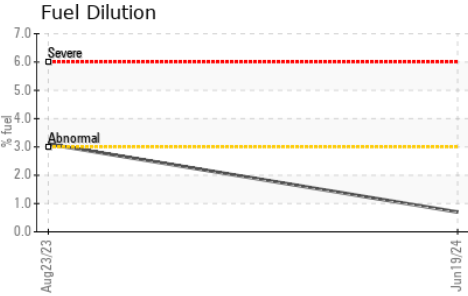
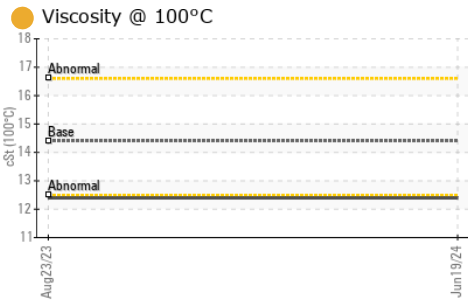
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	6	4	---
Potassium	ppm	ASTM D5185m	>20	2	4	---
Fuel	%	ASTM D3524	>3.0	0.7	▲ 3.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	17.7	---
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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m	151	373	1	---
Barium	ppm	ASTM D5185m	0.4	0	0	---
Molybdenum	ppm	ASTM D5185m	250	88	56	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	0	453	929	---
Calcium	ppm	ASTM D5185m	2046	1564	1163	---
Phosphorus	ppm	ASTM D5185m	1043	1146	1022	---
Zinc	ppm	ASTM D5185m	943	1399	1260	---
Sulfur	ppm	ASTM D5185m	5012	4205	3930	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	6.6	8.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	● 12.4	▲ 12.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001733 **Received** : 20 Jun 2024
Lab Number : 06215647 **Tested** : 24 Jun 2024
Unique Number : 11088511 **Diagnosed** : 24 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PercentFuel, TBN)

MCCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE
 17941 SUSSEX HIGHWAY
 BRIDGEVILLE, DE
 US 19933
 Contact: MATT CLARK
 MCLARK@mcclung-logan.com
 T: (302)337-3400
 F: (302)337-9083

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)