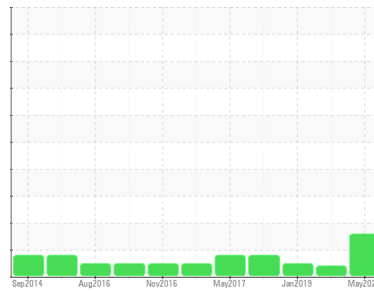


OIL ANALYSIS REPORT

Sample Rating Trend



Area
[W05004186]
 Machine Id
VOLVO A40F 11613
 Component
Transmission (Auto)
 Fluid
VOLVO AT 102 (11 GAL)



DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W05004186)

Wear
 Clutch and/or bushing/bearing wear is indicated. All other component wear rates are normal.

Contamination
 There is no indication of any contamination in the fluid.

Fluid Condition
 The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ML0001117	VCP220075	VCP237511
Sample Date	Client Info	02 May 2024	30 Jan 2019	09 Jan 2019
Machine Age	hrs	15926	10337	10197
Oil Age	hrs	2000	0	0
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >160	24	14	7
Chromium	ppm ASTM D5185m >5	<1	0	<1
Nickel	ppm ASTM D5185m >5	<1	1	2
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m >5	0	0	0
Aluminum	ppm ASTM D5185m >50	11	7	5
Lead	ppm ASTM D5185m >50	0	0	0
Copper	ppm ASTM D5185m >225	▲ 270	135	133
Tin	ppm ASTM D5185m >10	▲ 13	0	8
Antimony	ppm ASTM D5185m	---	0	0
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 187	111	61	73
Barium	ppm ASTM D5185m 0.0	0	0	0
Molybdenum	ppm ASTM D5185m 0.0	<1	1	<1
Manganese	ppm ASTM D5185m 0.0	0	<1	0
Magnesium	ppm ASTM D5185m 6.8	1	9	<1
Calcium	ppm ASTM D5185m 215	80	304	78
Phosphorus	ppm ASTM D5185m 445	213	290	154
Zinc	ppm ASTM D5185m 56	4	64	3
Sulfur	ppm ASTM D5185m 1336	1997	2150	1453

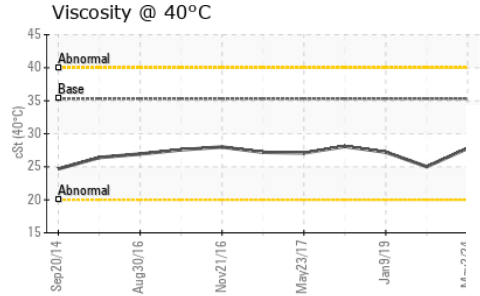
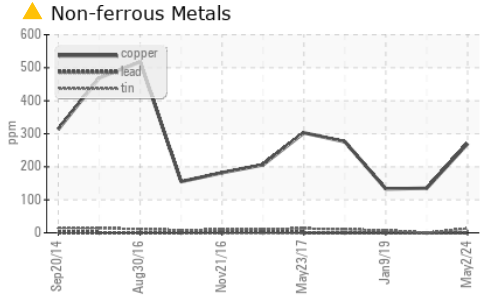
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	5	10	3
Sodium	ppm ASTM D5185m	1	8	3
Potassium	ppm ASTM D5185m >20	2	0	0

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	LIGHT
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	▲ MODER	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
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

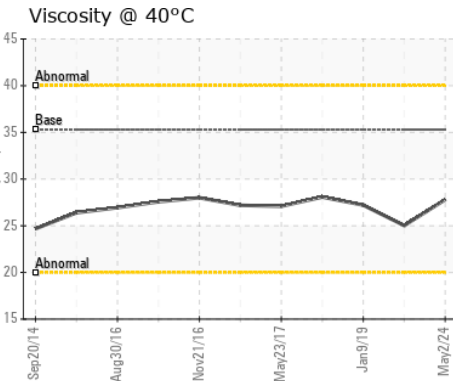
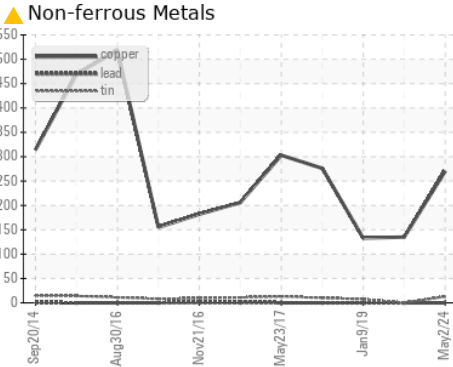
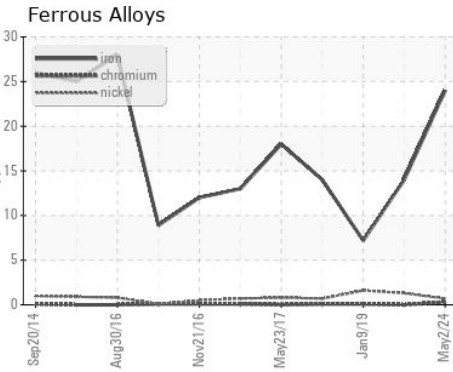


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	35.3	27.8	25.02

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001117
Lab Number : 06174428
Unique Number : 11020481
Test Package : CONST

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: MIKE MAYHUGH
 MMYHUGH@MCCLUNG-LOGAN.COM
 T: (703)393-7344
 F: (703)393-7844

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)