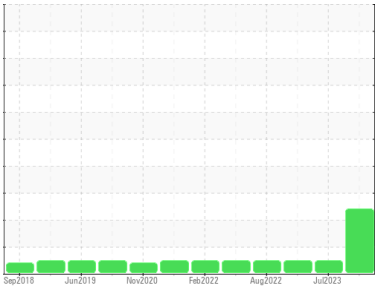
OIL ANALYSIS REPORT

Area
AMR-12th Street
Machine Id
438153 VOLVO L180H 4787
Component
Rear Axle
Fluid
VOLVO WB 102 (0 GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

▲ Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

▲ Fluid Condition
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DJJ0016938**	DJJ0016951	DJJ0012283
Sample Date		Client Info		**01 Jan 2024**	05 Jul 2023	13 Jan 2023
Machine Age	hrs	Client Info		**11028**	10517	9993
Oil Age	hrs	Client Info		**1000**	0	2000
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**ATTENTION**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**30**	12	28
Chromium	ppm	ASTM D5185m	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>30	**0**	1	2
Lead	ppm	ASTM D5185m	>50	**0**	<1	<1
Copper	ppm	ASTM D5185m	>120	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>20	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		▲ **14**	156	121
Barium	ppm	ASTM D5185m		**0**	0	1
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	8	16
Calcium	ppm	ASTM D5185m		▲ **155**	4375	3745
Phosphorus	ppm	ASTM D5185m		▲ **771**	1392	1132
Zinc	ppm	ASTM D5185m		▲ **75**	1698	1470
Sulfur	ppm	ASTM D5185m		▲ **17581**	4788	4007

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**0**	13	14
Sodium	ppm	ASTM D5185m		**<1**	2	3
Potassium	ppm	ASTM D5185m	>20	**<1**	1	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
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**	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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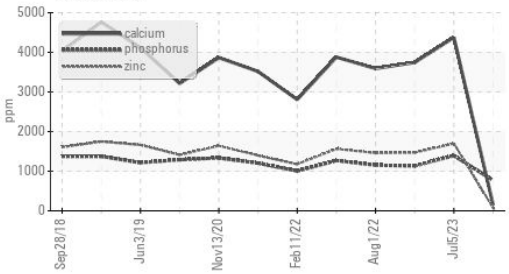
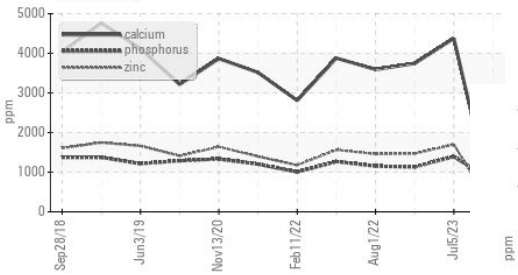
Additives



Additives

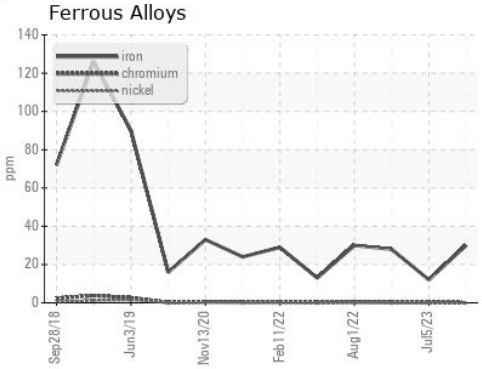


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	▲ **129**	43.0	43.8

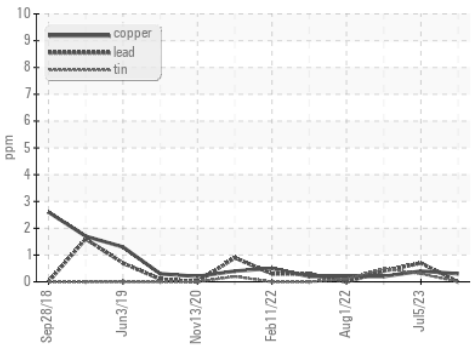
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

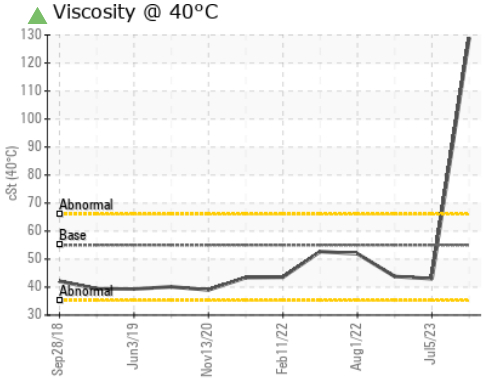
Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0016938
Lab Number : 06058911
Unique Number : 10830293
Test Package : CONST

Recieved : 11 Jan 2024
Diagnosed : 15 Jan 2024
Diagnostician : Don Baldridge

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)

ADVANTAGE METALS RECYCLING - 12 STREET
1153 S. 12TH STREET
KANSAS CITY, KS
US 66105
Contact: JOHN PEEK
john.peek@advantagerecycling.com
T: (660)424-9134
F: (913)621-2766