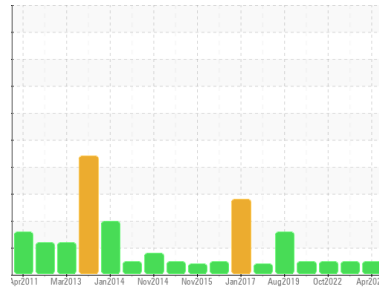




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**AMR-Sedalia**

Machine Id

**17421 VOLVO L90E 67474**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 68 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>DJJ0012338</b>	DJJ0019215	DJJ024135
Sample Date	Client Info		<b>11 Apr 2024</b>	02 May 2023	26 Oct 2022
Machine Age	hrs	Client Info	<b>17251</b>	16887	16401
Oil Age	hrs	Client Info	<b>0</b>	1000	750
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>7</b>	4	3
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	1	0
Lead	ppm	ASTM D5185m >20	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m >150	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 25	<b>3</b>	1	<1
Calcium	ppm	ASTM D5185m 200	<b>103</b>	97	87
Phosphorus	ppm	ASTM D5185m 300	<b>337</b>	355	360
Zinc	ppm	ASTM D5185m 370	<b>427</b>	461	469
Sulfur	ppm	ASTM D5185m 2500	<b>1586</b>	2005	2277

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	2	2
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	<1

## FLUID CLEANLINESS

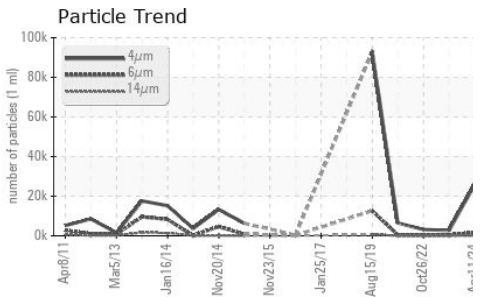
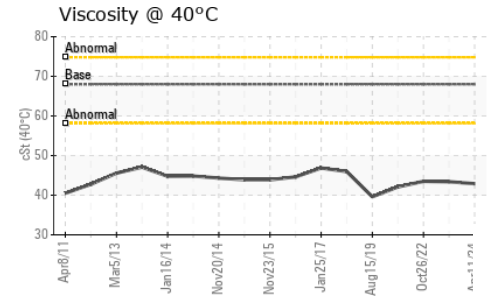
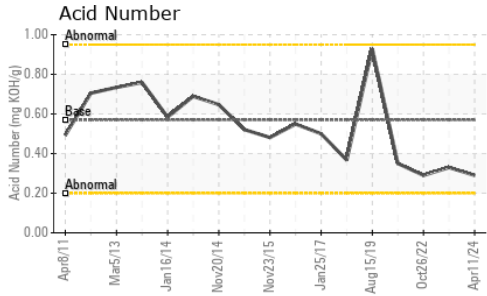
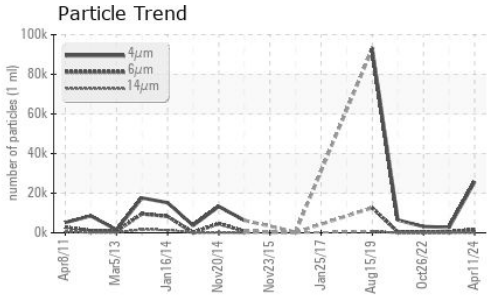
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>25735</b>	2671	3189
Particles >6µm	ASTM D7647	>2500	<b>1726</b>	409	331
Particles >14µm	ASTM D7647	>80	<b>33</b>	16	22
Particles >21µm	ASTM D7647	>20	<b>5</b>	4	6
Particles >38µm	ASTM D7647	>4	<b>1</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/13	<b>22/18/12</b>	19/16/11	19/16/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.29</b>	0.33	0.29



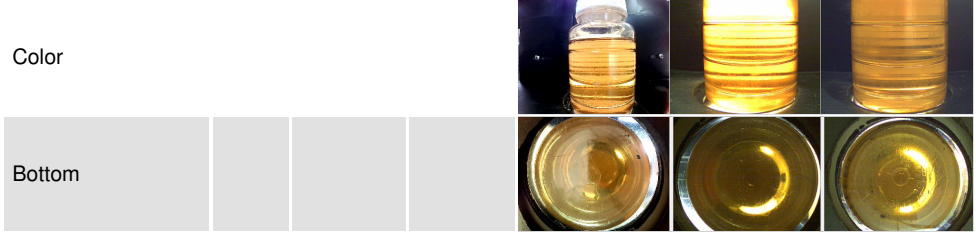
# OIL ANALYSIS REPORT



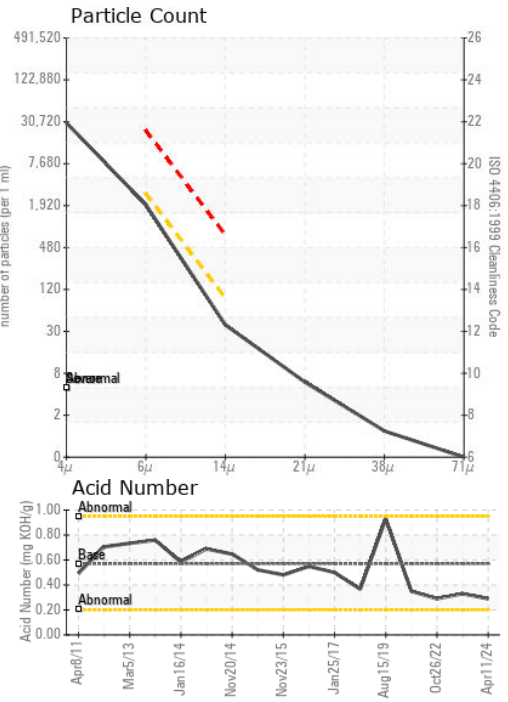
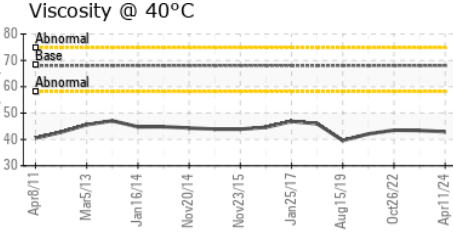
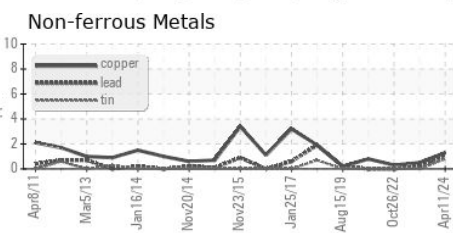
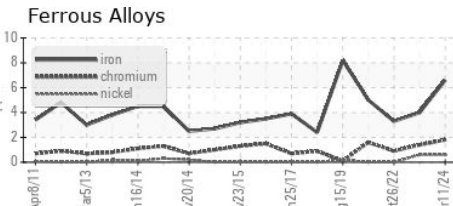
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	42.9	43.4	43.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0012338  
**Lab Number** : 06153763  
**Unique Number** : 10989186  
**Test Package** : MOBCE  
**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Angela Borella

**ADVANTAGE METALS RECYCLING - SEDALIA**  
 300 N IRON AVE  
 SEDALIA, MO  
 US 65301  
 Contact: SCOTT TUTTLE  
 scott.tuttle@advantagerecycling.com  
 T: (660)827-1873  
 F: (660)827-5304

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)