



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
AMR-Sedalia
Machine Id
17421 VOLVO L90E 67474
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0012338	DJJ0019215	DJJ0024135
Sample Date		Client Info		11 Apr 2024	02 May 2023	26 Oct 2022
Machine Age	hrs	Client Info		17251	16887	16401
Oil Age	hrs	Client Info		0	1000	750
Filter Age	hrs	Client Info		0	1000	750
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	4	3
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	0
Lead	ppm	ASTM D5185m	>20	1	<1	0
Copper	ppm	ASTM D5185m	>150	1	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

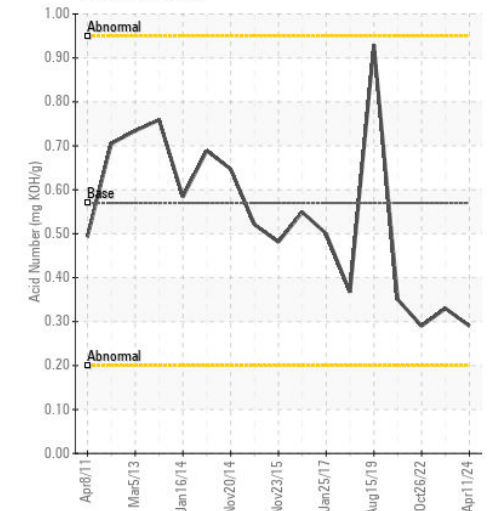
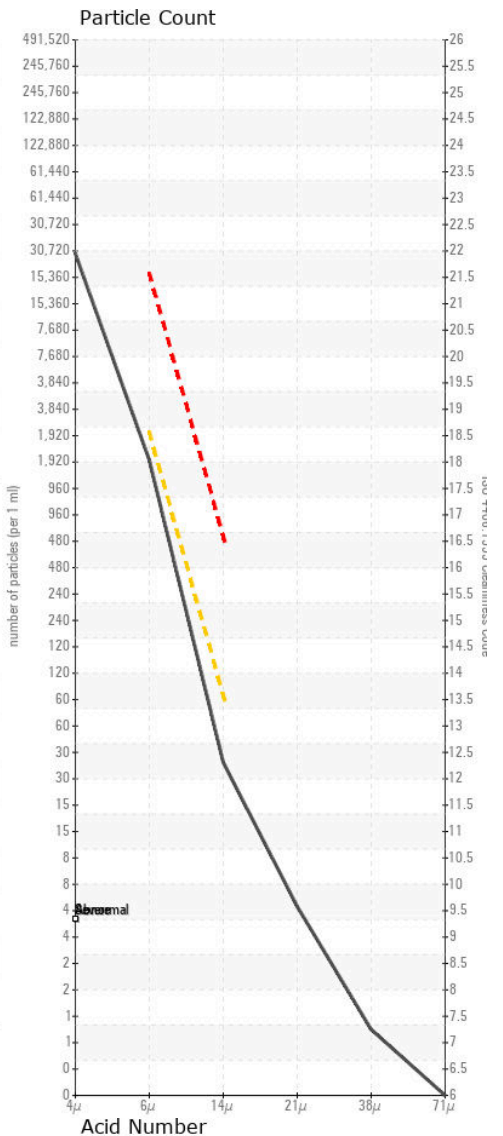
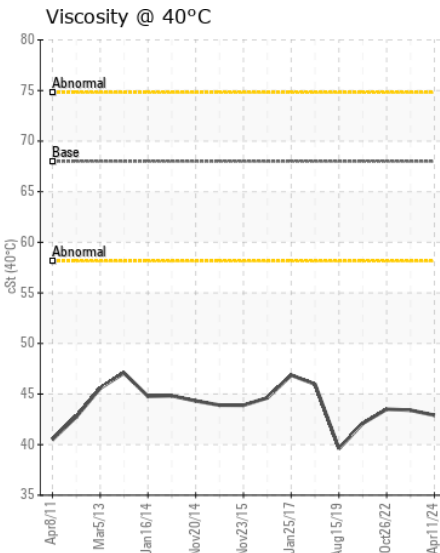
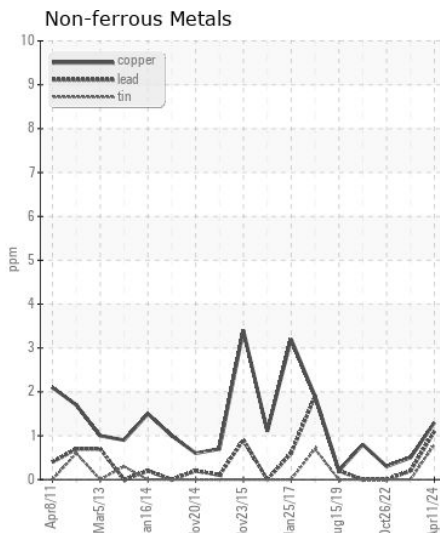
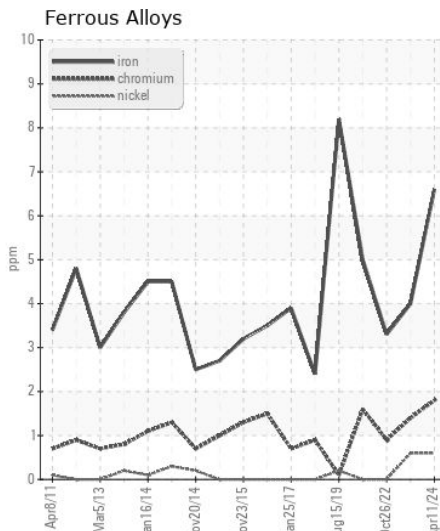
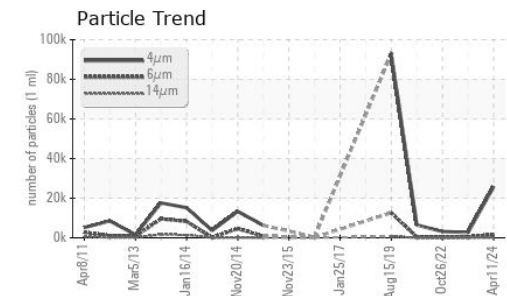
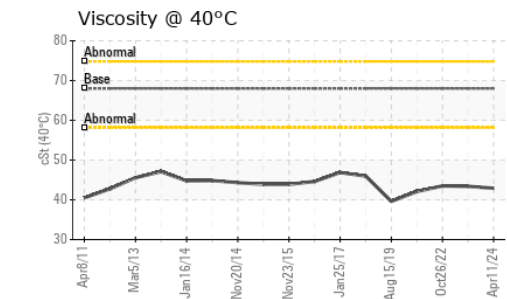
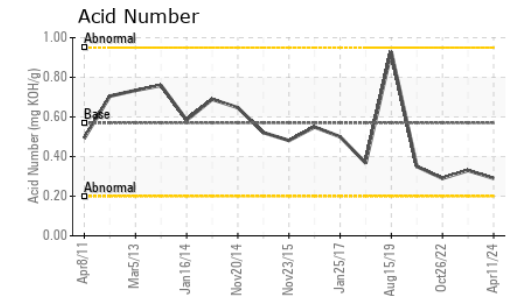
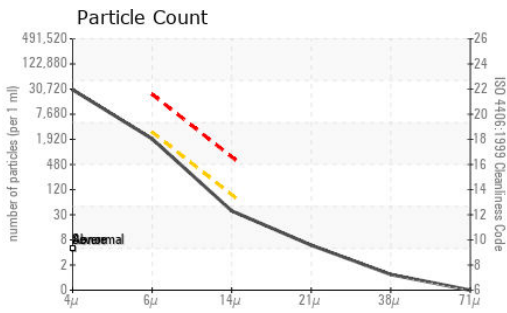
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	4	2	2
Potassium	ppm	ASTM D5185m	>20	1	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		25735	2671	3189
Particles >6µm		ASTM D7647	>2500	1726	409	331
Particles >14µm		ASTM D7647	>80	33	16	22
Particles >21µm		ASTM D7647	>20	5	4	6
Particles >38µm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	22/18/12	19/16/11	19/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	0
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	1	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	3	1	<1
Calcium	ppm	ASTM D5185m	200	103	97	87
Phosphorus	ppm	ASTM D5185m	300	337	355	360
Zinc	ppm	ASTM D5185m	370	427	461	469
Sulfur	ppm	ASTM D5185m	2500	1586	2005	2277
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.29	0.33	0.29
Visc @ 40°C	cSt	ASTM D445	68	42.9	43.4	43.5



Certificate L2367

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

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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)