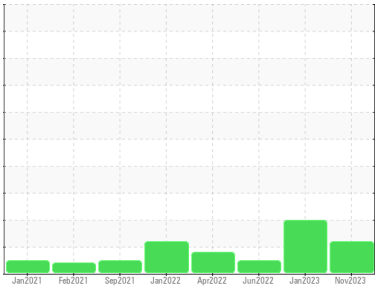
PROBLEM SUMMARY

Area
AMR-Manchester
Machine Id
VOLVO L90H 524168 (S/N 625478)
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (--- GAL)

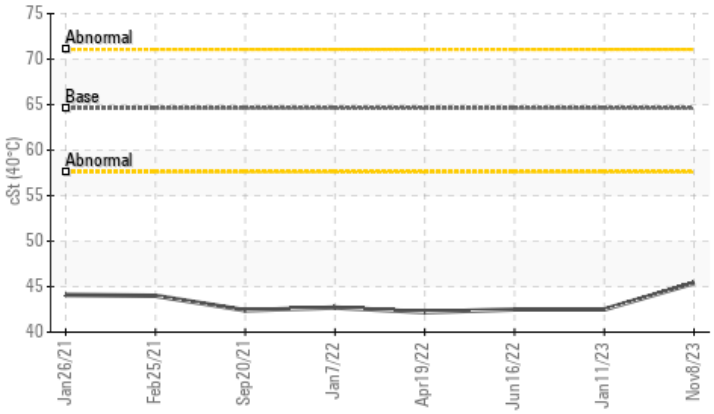
Sample Rating Trend



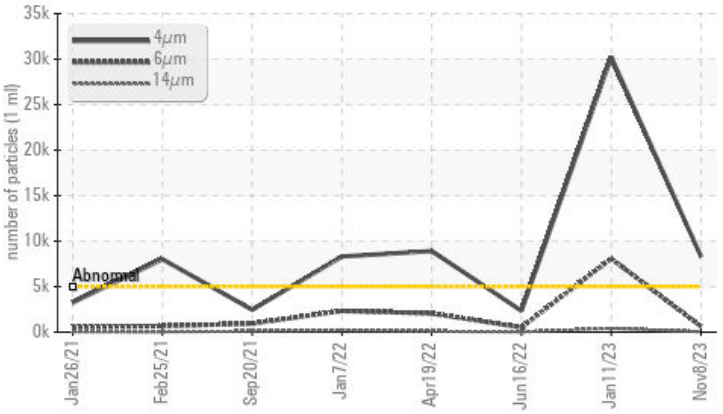
VISCOSITY

COMPONENT CONDITION SUMMARY

Viscosity @ 40°C



Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	NORMAL
Particles >4µm		ASTM D7647	>5000	▲ **8305**	▲ 30224	2352
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/16/13**	▲ 22/20/16	18/16/12
Visc @ 40°C	cSt	ASTM D445	64.6	▲ **45.4**	42.5	42.5

Customer Id: ADVKANMAN
Sample No.: DJJ0012266
Lab Number: 06014503
Test Package: MOBCE

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

11 Jan 2023 Diag: Don Baldridge

ISO

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.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

16 Jun 2022 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

19 Apr 2022 Diag: Jonathan Hester

ISO

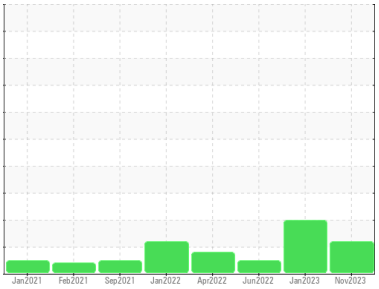
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Area
AMR-Manchester
Machine Id
VOLVO L90H 524168 (S/N 625478)
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (--- GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DJJ0012266**	DJJ0012254	VCE184158
Sample Date		Client Info		**08 Nov 2023**	11 Jan 2023	16 Jun 2022
Machine Age	hrs	Client Info		**8229**	6389	5082
Oil Age	hrs	Client Info		**0**	2000	250
Oil Changed		Client Info		**N/A**	Changed	Not Changd
Sample Status				**ATTENTION**	ABNORMAL	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	>50	**3**	3	<1
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	0	<1
Lead	ppm	ASTM D5185m	>20	**<1**	0	<1
Copper	ppm	ASTM D5185m	>20	**2**	1	<1
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	15
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**3**	2	2
Calcium	ppm	ASTM D5185m		**132**	63	63
Phosphorus	ppm	ASTM D5185m		**374**	319	324
Zinc	ppm	ASTM D5185m		**447**	382	415
Sulfur	ppm	ASTM D5185m		**1008**	808	1177

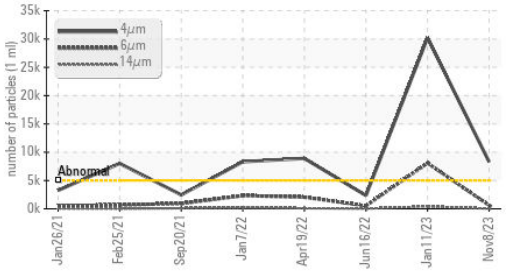
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**2**	3	1
Sodium	ppm	ASTM D5185m		**<1**	1	1
Potassium	ppm	ASTM D5185m	>20	**<1**	0	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **8305**	▲ 30224	2352
Particles >6µm		ASTM D7647	>1300	**637**	▲ 8073	517
Particles >14µm		ASTM D7647	>160	**41**	▲ 407	30
Particles >21µm		ASTM D7647	>40	**10**	▲ 61	7
Particles >38µm		ASTM D7647	>10	**1**	2	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/16/13**	▲ 22/20/16	18/16/12

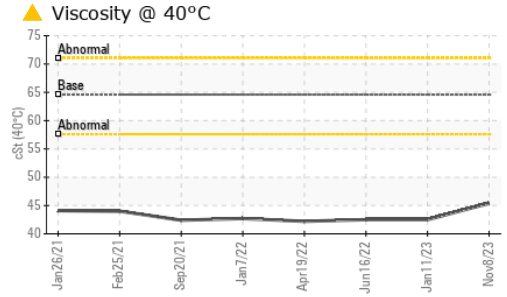
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.16**	0.32	0.30

OIL ANALYSIS REPORT

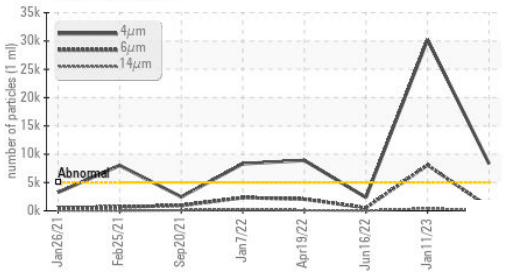
Particle Trend



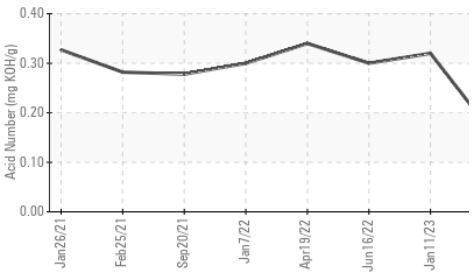
Viscosity @ 40°C



Particle Trend

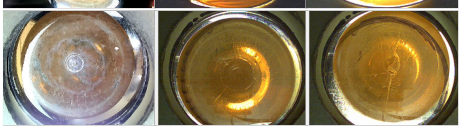


Acid Number



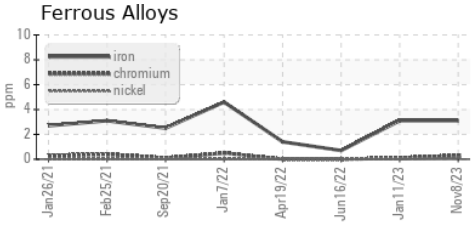
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64.6	▲ **45.4**	42.5	42.5

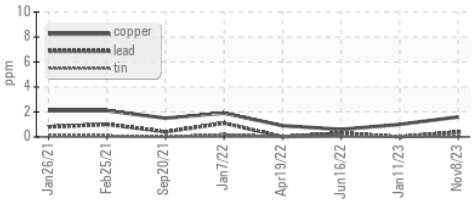
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

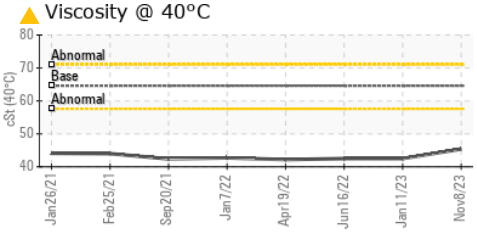
Ferrous Alloys



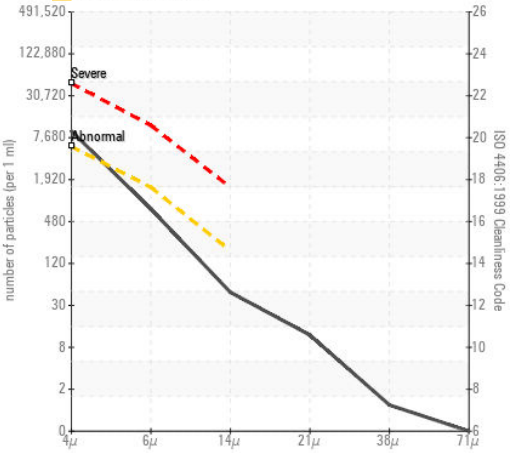
Non-ferrous Metals



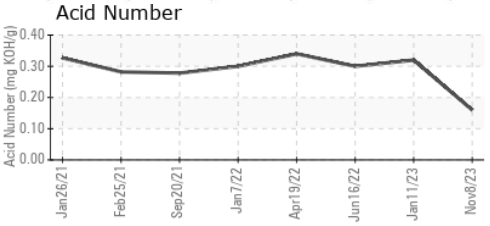
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0012266
Lab Number : 06014503
Unique Number : 10753647
Test Package : MOBCE

Received : 21 Nov 2023
Diagnosed : 24 Nov 2023
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 - MANCHESTER
3005 MANCHESTER TRAFFICWAY
KANSAS CITY, MO
US 64129
Contact: STEVE BROWN
steve.brown@advantagerecycling.com
T: (816)922-5100
F: (816)861-7670