MOB II

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area
[0086]
Machine Id
VOLVO A25G 740098
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

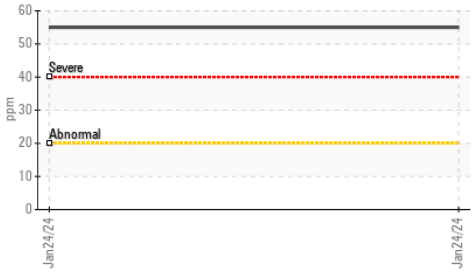
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

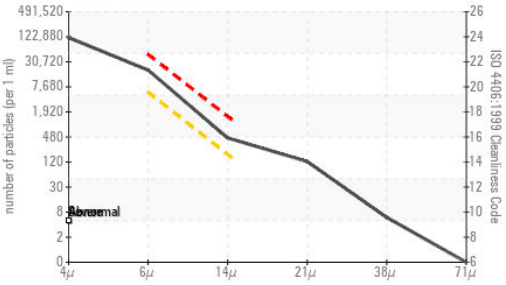
Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP439285	---	---
Sample Date		Client Info		24 Jan 2024	---	---
Machine Age	hrs	Client Info		12847	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>50	0	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	<1	---	---
Lead	ppm	ASTM D5185m	>20	1	---	---
Copper	ppm	ASTM D5185m	>150	2	---	---
Tin	ppm	ASTM D5185m	>20	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	⬢ 55	---	---
Potassium	ppm	ASTM D5185m	>20	7	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647		101156	---	---
Particles >6µm		ASTM D7647	>5000	▲ 16865	---	---
Particles >14µm		ASTM D7647	>160	▲ 400	---	---
Particles >21µm		ASTM D7647	>40	▲ 109	---	---
Particles >38µm		ASTM D7647	>10	5	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>--/19/14	▲ 24/21/16	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	5	21	---	---
Barium	ppm	ASTM D5185m	5	0	---	---
Molybdenum	ppm	ASTM D5185m	5	14	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	25	44	---	---
Calcium	ppm	ASTM D5185m	200	664	---	---
Phosphorus	ppm	ASTM D5185m	300	424	---	---
Zinc	ppm	ASTM D5185m	370	472	---	---
Sulfur	ppm	ASTM D5185m	2500	2409	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.60	---	---
Visc @ 40°C	cSt	ASTM D445	46	▲ 63.55	---	---

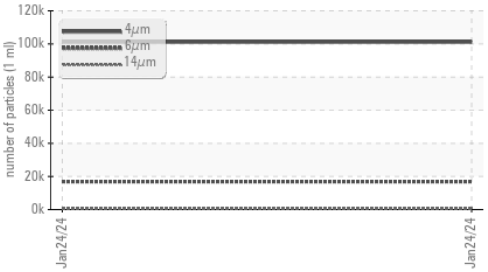
Silicon (ppm)



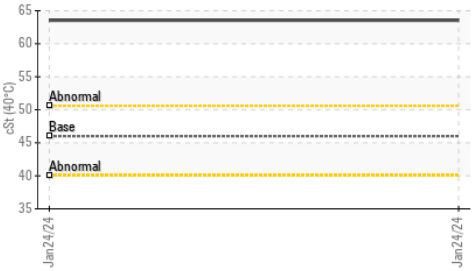
Particle Count



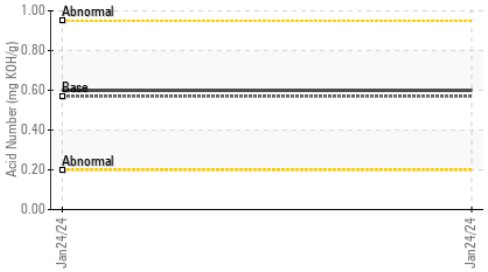
Particle Trend



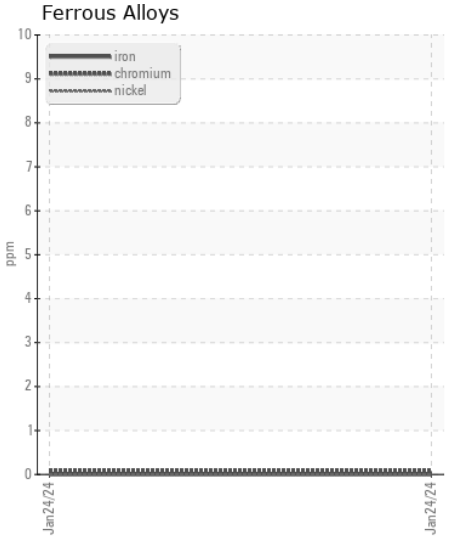
Viscosity @ 40°C



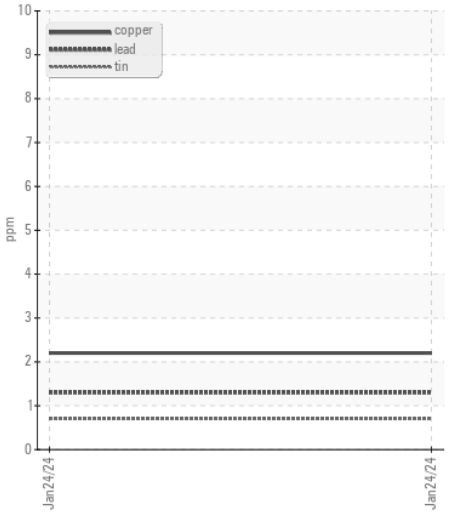
Acid Number



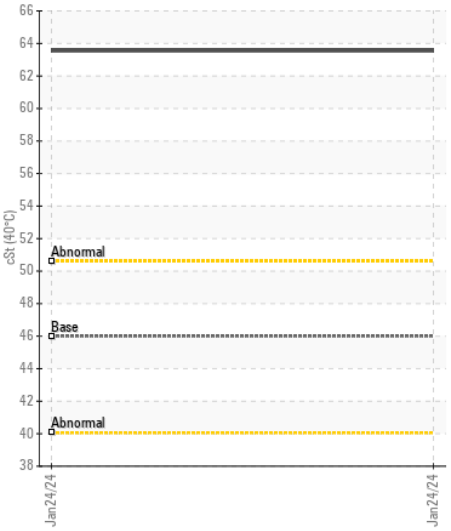
Ferrous Alloys



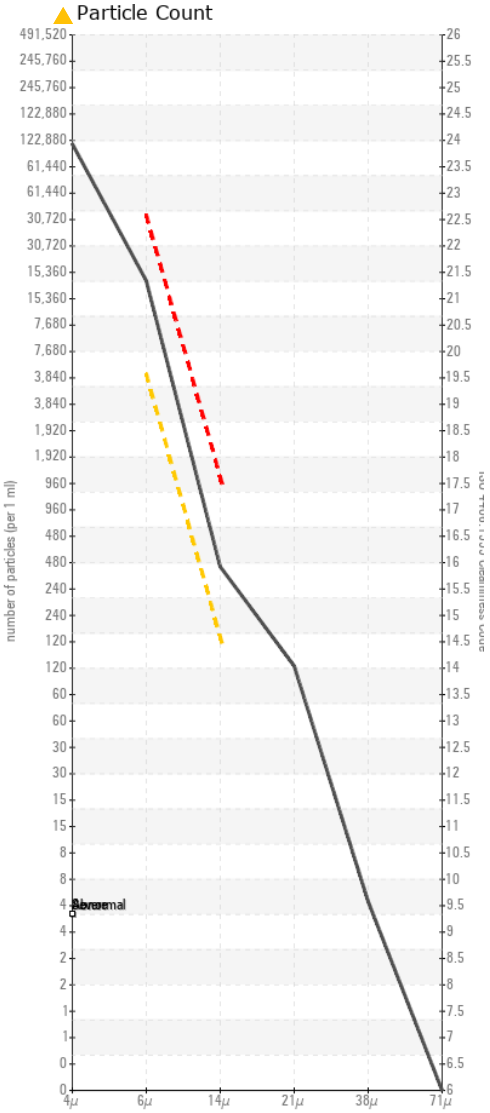
Non-ferrous Metals



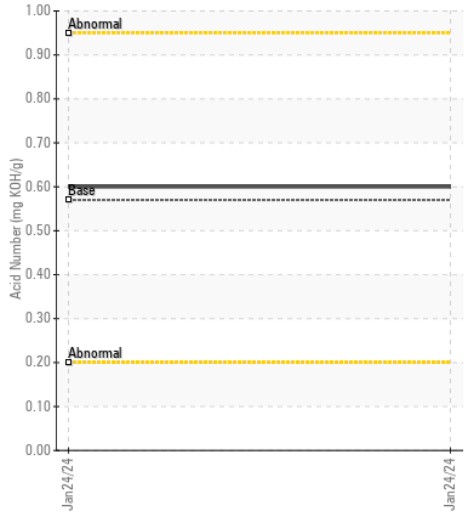
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP439285
Lab Number : 06076810
Unique Number : 10858901
Test Package : MOB 2

Received : 01 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 07 Feb 2024 - Jonathan Hester

JON M HALL COMPANY
1920 BOOTHE CIRCLE SUITE 110
LONGWOOD, FL
US 32750
Contact: SERVICE MANAGER

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)

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F: