



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[3598 BULK EXPRESS]
 Machine Id
VOLVO L180H 5720
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP455364	VCP432356	VCP434602
Sample Date		Client Info		07 Feb 2024	20 Dec 2023	07 Nov 2023
Machine Age	hrs	Client Info		2615	2139	1692
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
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	0
Lead	ppm	ASTM D5185m	>20	3	<1	1
Copper	ppm	ASTM D5185m	>20	4	2	2
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

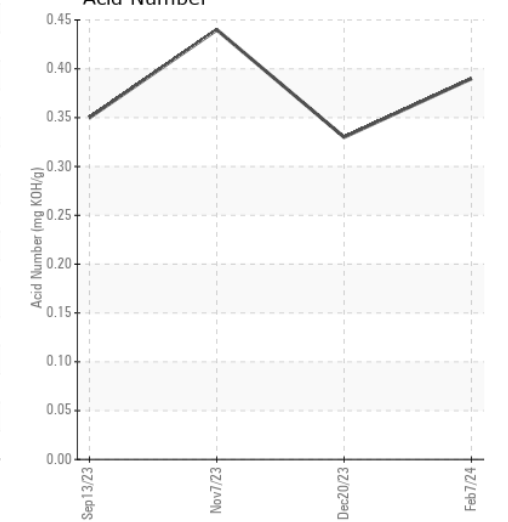
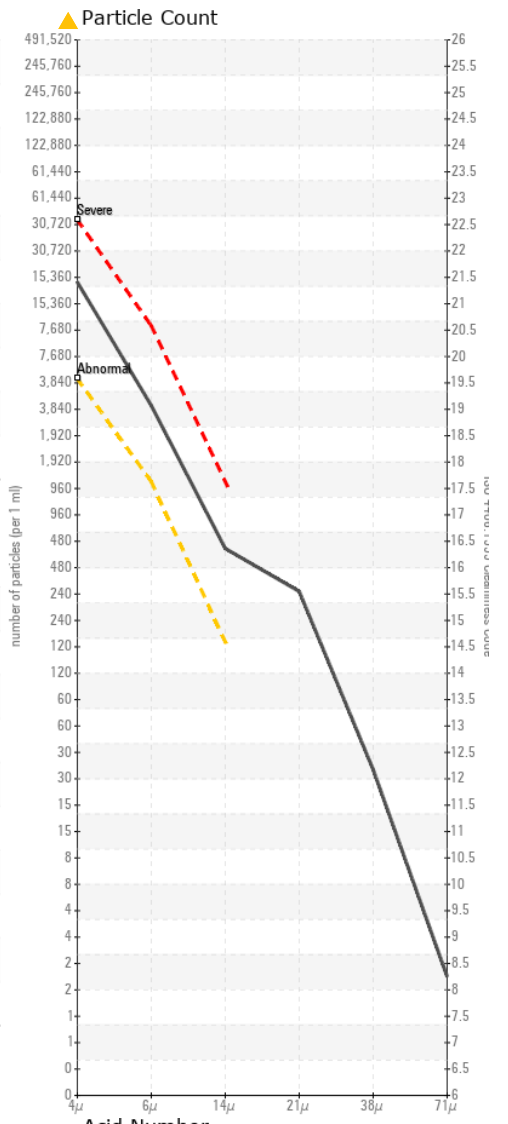
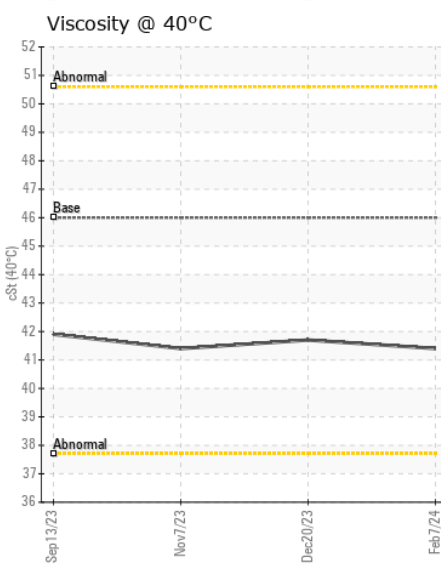
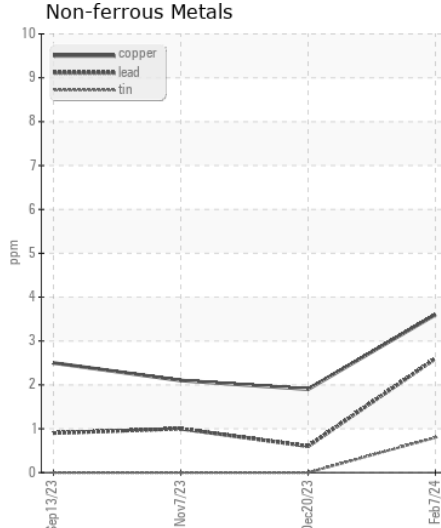
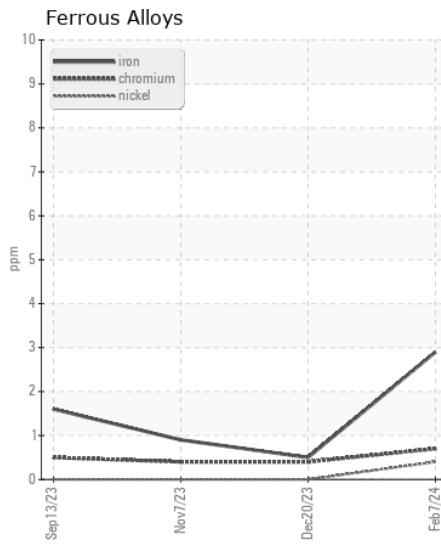
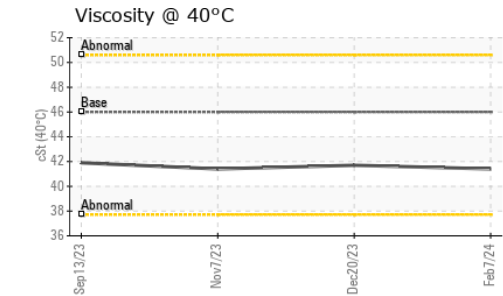
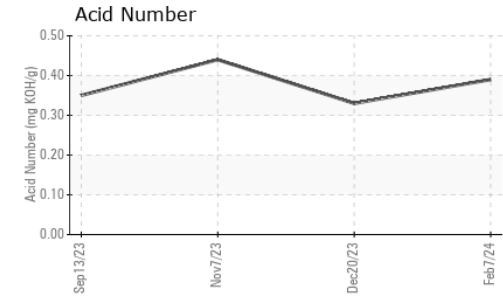
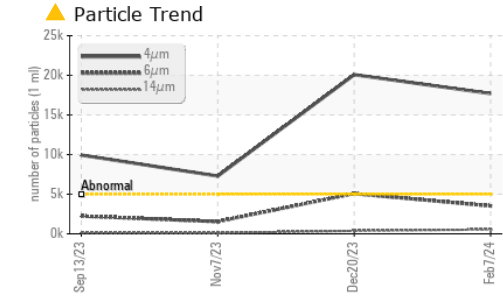
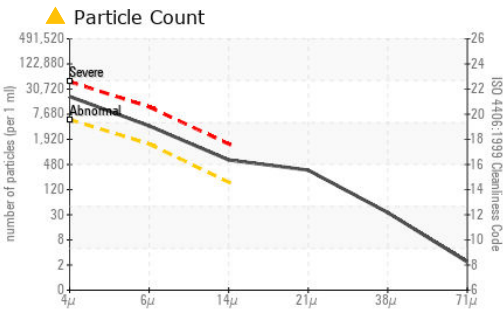
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	1	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 17697	▲ 20081	▲ 7285
Particles >6µm		ASTM D7647	>1300	▲ 3518	▲ 5072	▲ 1539
Particles >14µm		ASTM D7647	>160	▲ 542	▲ 374	98
Particles >21µm		ASTM D7647	>40	▲ 309	▲ 108	27
Particles >38µm		ASTM D7647	>10	▲ 30	9	2
Particles >71µm		ASTM D7647	>3	2	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/16	▲ 22/20/16	▲ 20/18/14
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

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	13	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	0
Manganese	ppm	ASTM D5185m	0.0	<1	0	0
Magnesium	ppm	ASTM D5185m	2.6	<1	0	0
Calcium	ppm	ASTM D5185m	49	51	51	29
Phosphorus	ppm	ASTM D5185m	354	340	304	302
Zinc	ppm	ASTM D5185m	419	407	393	422
Sulfur	ppm	ASTM D5185m	3719	1414	1213	1131
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.33	0.44
Visc @ 40°C	cSt	ASTM D445	46	41.4	41.7	41.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP455364
Lab Number : 06086010
Unique Number : 10873455
Test Package : MOB 2

Received : 12 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 13 Feb 2024 - Wes Davis

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
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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)