WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

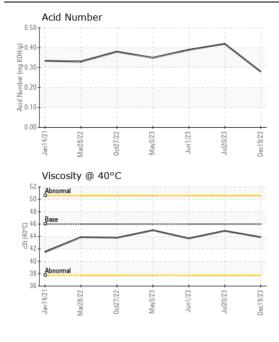
NORMAL

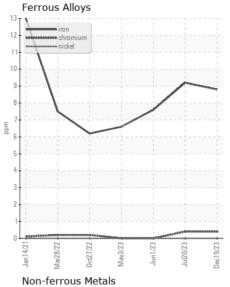


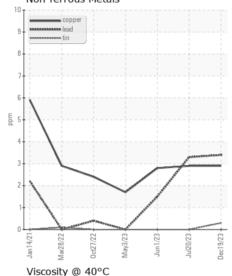
VOLVO A40G 341147

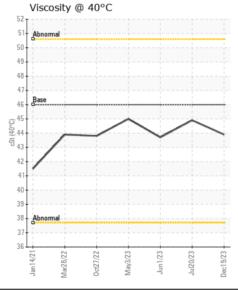
Component Hydraulic System

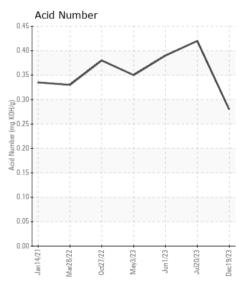
VOLVO SUPER HYDRAULIC O	IL 46 (GA	L)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		ASC0006150	,	VCP420401
	Sample Date		Client Info		19 Dec 2023	20 Jul 2023	01 Jun 2023
	Machine Age	hrs	Client Info		13778	13573	13304
	Oil Age	hrs	Client Info		12186	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	9	9	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	4	3
	Lead	ppm	ASTM D5185m		3	3	2
	Copper	ppm	ASTM D5185m	>150	3	3	3
	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	Silicon	ppm	ASTM D5185m		5	6	5
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m		2	<1	2
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647				49853
	Particles >6µm		ASTM D7647				<u>▲</u> 16216
	Particles >14μm		ASTM D7647	>160			<u>▲</u> 664
	Particles >21μm		ASTM D7647				<u></u> 84
	Particles >38μm		ASTM D7647				3
	Particles >71μm		ASTM D7647				0
	Oil Cleanliness		ISO 4406 (c)				<u>23/21/17</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MDHVY	▲ MODER	LIGHT
	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	Sodium	ppm	ASTM D5185m		<1	2	5
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	14	0	0	0
	Barium	ppm	ASTM D5185m	0.0	0	2	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	0
	Manganese	ppm	ASTM D5185m	0.0	<1	0	0
	Magnesium	ppm	ASTM D5185m	2.6	31	34	34
	Calcium	ppm	ASTM D5185m	49	264	159	170
	Phosphorus	ppm	ASTM D5185m		386	341	348
	Zinc	ppm	ASTM D5185m		438	414	403
	Sulfur	ppm	ASTM D5185m	3719	1770	1753	1920
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	0.42	0.39
	Visc @ 40°C	cSt	ASTM D445	46	43.9	44.9	43.7













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : CONST

: ASC0006150 : 06058009 : 10829391

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024 : Don Baldridge Diagnostician

Hanson Aggregates - Rocky Mount 10471 NC 97

ROCKY MOUNT, NC US 27801

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)

T:

F: