

OIL ANALYSIS REPORT

Sample Rating Trend





VOLVO A35G 340181 Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001889	VCP351047	VCP226413
Sample Date		Client Info		21 May 2024	14 Apr 2023	30 Aug 2018
Machine Age	hrs	Client Info		12006	9829	3938
Oil Age	hrs	Client Info		2177	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	15	15	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	7	5	2
Lead	ppm	ASTM D5185m	>20	2	0	2
Copper	ppm	ASTM D5185m	>150	5	6	7
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	3	3	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	3	2	<1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	16	20	1
Calcium	ppm	ASTM D5185m	49	152	139	53
Phosphorus	ppm	ASTM D5185m	354	356	324	349
Zinc	ppm	ASTM D5185m	419	436	411	432
Sulfur	ppm	ASTM D5185m	3719	2399	2899	4572
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	12	11
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	3	0	9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1500	939	3357
Particles >6µm		ASTM D7647	>5000	106	103	571
Particles >14µm		ASTM D7647	>160	7	7	76
Particles >21µm		ASTM D7647	>40	2	1	15
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0

ISO 4406 (c) >--/19/14

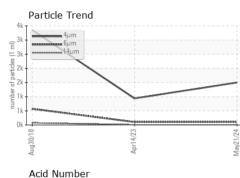
18/14/10

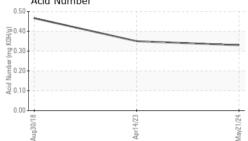
Oil Cleanliness

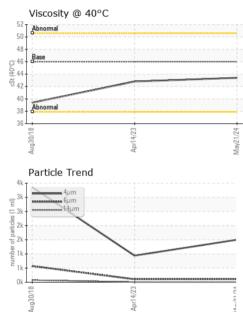
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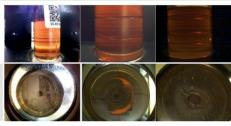


OIL ANALYSIS REPORT

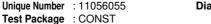
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.35	0.466
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.4	42.8	39.39
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color

Bottom



Ferrous Alloys Particle Count 491,520 10 122,880 m chr 30,720 ISO 4406:1999 Cle -20 7.680 4/23 May21/24 ua30/18 (per 1 1,920 18 cles (480 Non-ferrous Metals 16 120 14 30 12 8 Apr14/23 May21/24 Viscosity @ 40°C Acid Number (B/H0.60 55-Abn () 00 0€ 45 Ê 0.40 ぢ 40 -e 0.20 Acid N 000 35 May21/24 -Apr14/23 Apr14/23 Aun 30/18 Mav21/24 Aug30/ MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ML0001889 Received : 29 May 2024 1345 MOUNTAIN ROAD Lab Number : 06193932 Tested : 30 May 2024 GLEN ALLEN, VA Unique Number : 11056055 : 31 May 2024 - Angela Borella US 23060



Diagnosed

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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Contact: KYLE RATLIFFE

Report Id: VOLVO8882 [WUSCAR] 06193932 (Generated: 05/31/2024 16:51:06) Rev: 1

Certificate 12367

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