

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Ascendum Machinery Machine Id VOLVO A30G A30GV742414

Component Hydraulic System

VÕLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

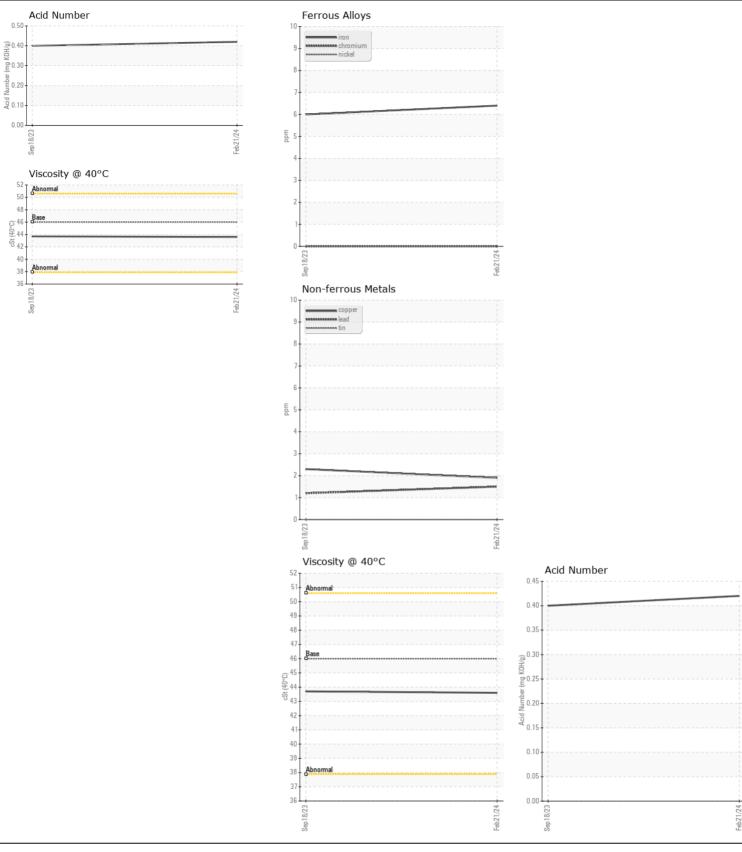
CONTAMINATION

No other contaminants were detected in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007287	ASC0000805	
Sample Date		Client Info		21 Feb 2024	18 Sep 2023	
Machine Age	hrs	Client Info		5214	4505	
Oil Age	hrs	Client Info		709	4505	
Filter Age	hrs	Client Info		0	0	
Oil Changed	_	Client Info		Not Changd	Changed	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>50	6	6	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	2	4	
Lead	ppm	ASTM D5185m	>20	2	1	
Copper	ppm	ASTM D5185m	>150	2	2	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	🔺 MODER	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	3	2	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647			34655	
Particles >6µm		ASTM D7647	>5000		<u> </u>	
Particles >14µm		ASTM D7647	>160		<u> </u>	
Particles >21µm		ASTM D7647	>40		<u> </u>	
Particles >38µm		ASTM D7647	>10		11	
Particles >71µm		ASTM D7647	>3		1	
Oil Cleanliness		ISO 4406 (c)	>/19/14		▲ 22/21/17	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	nnm	ASTM DE195m	_	-1	3	
Sodium Boron	ppm	ASTM D5185m ASTM D5185m	14	<1 0	3	
Barium	ppm	ASTM D5185m	0.0	0 <1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m	0.0	0	0	
Magnesium	ppm	ASTM D5185m	2.6	2	1	
Calcium	ppm		2.6 49	2 63		
	ppm	ASTM D5185m			61 275	
Phosphorus	ppm	ASTM D5185m	354	368	375	
Zinc	ppm	ASTM D5185m	419	483	471	
Sulfur	ppm	ASTM D5185m	3719	2557	3026	
Acid Number (AN)	mg KOH/g	ASTM D8045	46	0.42	0.40	
Visc @ 40°C	cSt	ASTM D445	46	43.6	43.7	



CAROLINA PRECISION GRADING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ASC0007287 Received : 23 Feb 2024 7427 MATTHEWS MINT HILL ROAD Lab Number : 06099105 : 26 Feb 2024 CHARLOTTE, NC Tested Unique Number : 10897335 Diagnosed : 26 Feb 2024 - Don Baldridge US 28227 Test Package : CONST Contact: Service Manager Certificate L2367 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. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: CHARLIE CANIPE