

Machine Id VOLVO A40G VOLVO A40G (S/N NOT GIVEN)

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.



All component wear rates are normal.

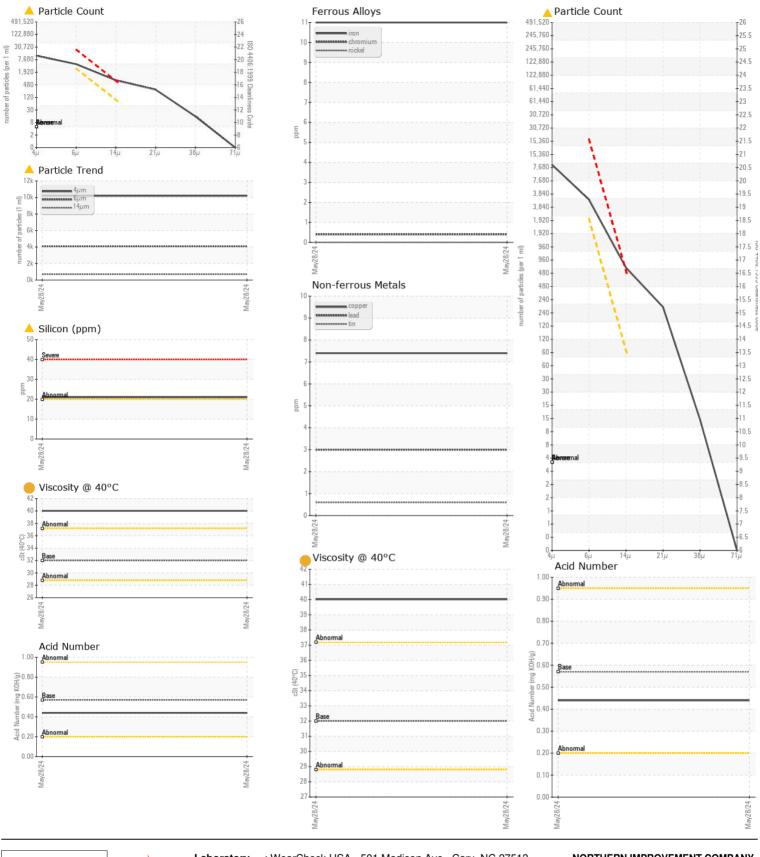
CONTAMINATION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP450560		
Sample Date		Client Info		28 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		200		
Filter Age	hrs	Client Info		0		
Oil Changed	_	Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>50	11		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>150	7		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	<b>A</b> 21		
Potassium	ppm	ASTM D5185m	>20	2		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647		10200		
Particles >6µm		ASTM D7647	>2500	<b>4089</b>		
Particles >14µm		ASTM D7647	>80	<b>688</b>		
Particles >21µm		ASTM D7647	>20	🔺 246		
Particles >38µm		ASTM D7647	>4	🔺 13		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/18/13	<u> </u>		
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		
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Sodium	ppm	ASTM D5185m	-	2		
Boron	ppm	ASTM D5185m	5	2		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m	0.5	<1		
Magnesium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m	200	201		
Phosphorus	ppm	ASTM D5185m	300	366		
Zinc	ppm	ASTM D5185m	370	465		
Sulfur	ppm	ASTM D5185m	2500	6019		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.44		
Visc @ 40°C	cSt	ASTM D445	32	<b>40.02</b>		

## **FLUID CONDITION**

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



NORTHERN IMPROVEMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. 4000 12 AVENUE N.W. : VCP450560 Received : 29 May 2024 Lab Number : 06193918 FARGO, ND Tested : 03 Jun 2024 Unique Number : 11056041 : 03 Jun 2024 - Jonathan Hester US 58108 Diagnosed Test Package : MOB 2 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: (701)277-1173 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (701)277-1139

Contact/Location: SERVICE MANAGER - NORFAR Page 2 of 2