WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

[41829]

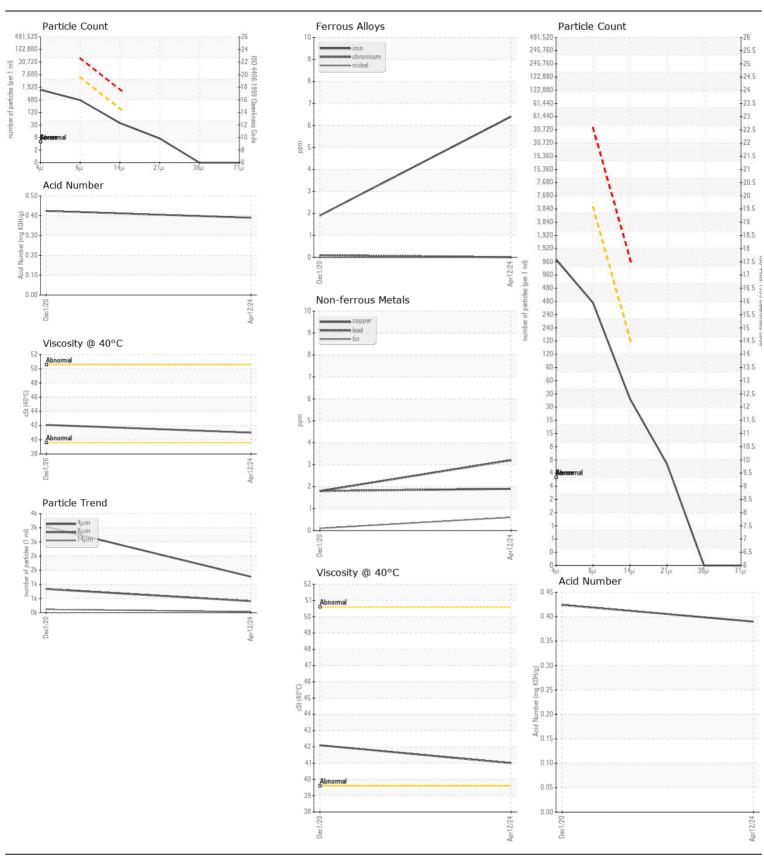


VOLVO A40G 352361

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		VCP449767	VCP295560	
	Sample Date		Client Info		12 Apr 2024	01 Dec 2020	
	Machine Age	hrs	Client Info		3829	899	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR					_		
WEAR	Iron	ppm	ASTM D5185m		6	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	00	0	<1	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		2	2	
	Copper	ppm	ASTM D5185m		3	2	
	Tin	ppm	ASTM D5185m	>20	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	6	
	Potassium	ppm	ASTM D5185m		0	<1	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	PP	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647	7 0	1269	3034	
	Particles >6µm		ASTM D7647	>5000	407	836	
	Particles >14µm		ASTM D7647		33	117	
	Particles >21µm		ASTM D7647		6	37	
	Particles >38µm		ASTM D7647		0	1	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)	>/19/14	17/16/12	19/17/14	
	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	
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	<1	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		<1	<1	
	Calcium	ppm	ASTM D5185m		44	49	
	Phosphorus	ppm	ASTM D5185m		286	341	
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		329	409	
		ppm mg KOU/g			1055	767	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.424	
	Visc @ 40°C	cSt	ASTM D445		41.0	42.1	





Certificate L2367

Laboratory Sample No.

Lab Number : 06150246 Unique Number : 10980324 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP449767 Received : 16 Apr 2024 Tested : 18 Apr 2024

: 18 Apr 2024 - Don Baldridge Diagnosed

BALFOUR BEATTY INFRASTRUCTURE INC

6701 OLD PLANK RD PARKTON, NC US 28371

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: