WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Area

[729036]

VOLVO A40G 342177



VOLVO SUPER HYDRAULIC O	IL 46 (GA	(L)					
RECOMMENDATION We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP443573	VCP424436	VCP358183
	Sample Date		Client Info		06 Jun 2024	29 Jun 2023	12 Sep 202
	Machine Age	hrs	Client Info		11658	10619	9334
	Oil Age	hrs	Client Info		3000	2000	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>50	15	18	18
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	2	2
	Lead	ppm	ASTM D5185m	>20	2	3	<1
	Copper	ppm	ASTM D5185m	>150	5	6	62
	Tin	ppm	ASTM D5185m	>20	0	<1	<1
	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	5	15
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647		12062		24150
	Particles >6µm		ASTM D7647		4087		329
	Particles >14μm		ASTM D7647		<u></u> 4 355		8
	Particles >21μm		ASTM D7647		<u>▲</u> 88		0
	Particles >38μm		ASTM D7647		4		1
	Particles >71μm		ASTM D7647		0		1
	Oil Cleanliness		ISO 4406 (c)				22/16/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.1	NORML NEG	NORML NEG	NORM NEG
FLUID CONDITION	Sodium		ACTM DE10E		2	0	2
FLOID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m	1/	3 0	0	2 127
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5165III		0	1	0
	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		8	7	11
	Calcium		ASTM D5185m	49	76	93	3951
	Phosphorus	ppm	ASTM D5185m		76 341	346	1225
	Zinc	ppm	ASTM D5185m		408	461	1470
	Sulfur	ppm	ASTM D5185m		3452	4222	4394
	Juliui	ppili	AO HVI DO TOOTH	0/19	3432	7222	4034

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 46

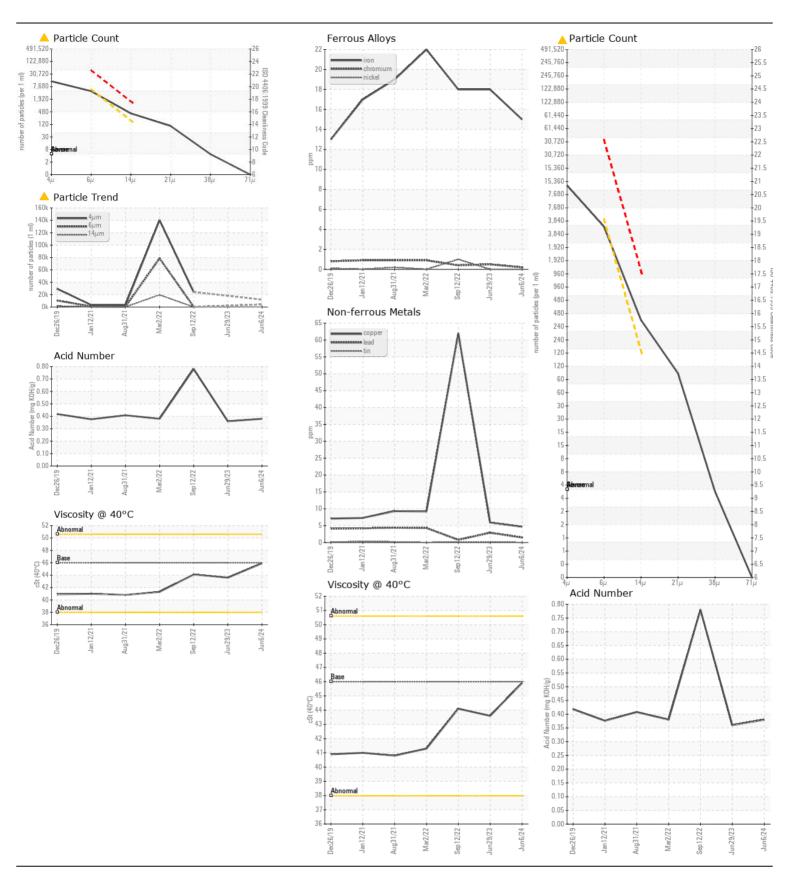
0.36

0.38

45.9

0.78

43.6 44.1





Certificate L2367

Laboratory Sample No. Lab Number

: VCP443573 : 06237697 Unique Number : 11126531 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Jul 2024 **Tested** : 17 Jul 2024 Diagnosed

: 17 Jul 2024 - Wes Davis

RIPA AND ASSOCIATES 10149 FISHER AVENUE TAMPA, FL

US 33619 Contact: PM Services

PMServices@ripaconstruction.com T:

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.

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