WEAR CONTAMINATION FLUID CONDITION

NORMAL
ATTENTION
NORMAL

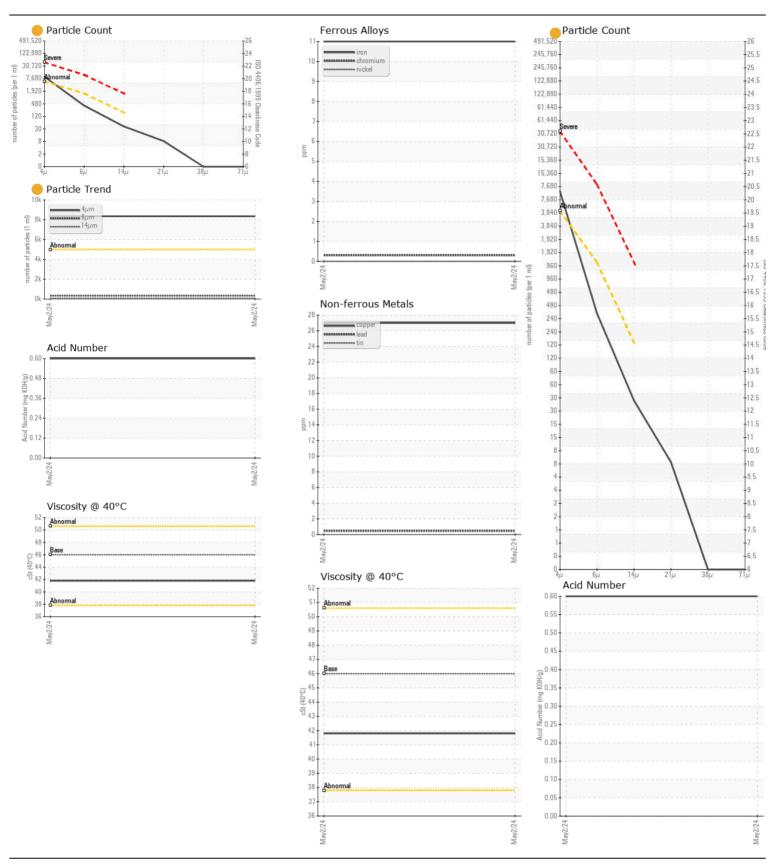
[W02008268]

**VOLVO ECR355 314451** 

**Right Hydraulic System** 

**VOLVO SUPER HYDRAULIC OIL 46 (40 GAL)** 

VOLVO SUPER RIDRAULIC OIL 40 (40 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: W02008268 )	Sample Number		Client Info		ML0001059		
	Sample Date		Client Info		02 May 2024		
	Machine Age	hrs	Client Info		993		
	Oil Age	hrs	Client Info		2007		
	Filter Age	hrs	Client Info		1000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	11		
	Chromium	ppm	ASTM D5185m	>10	<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	2		
	Lead	ppm	ASTM D5185m	>10	<1		
	Copper	ppm	ASTM D5185m	>75	27		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		<b>8352</b>		
	Particles >6µm		ASTM D7647		343		
	Particles >14μm		ASTM D7647		35		
	Particles >21μm		ASTM D7647		7		
	Particles >38μm		ASTM D7647		0		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		0 20/16/12		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
I LOID CONDITION	Boron	ppm	ASTM D5185m	14	5		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		3		
	Calcium	ppm	ASTM D5185m		291		
	Phosphorus	ppm	ASTM D5185m		451		
	Zinc	ppm	ASTM D5185m		558		
	Sulfur	ppm	ASTM D5185m		2919		
	Acid Number (AN)	mg KOH/g	ASTM D3103111	37 13	0.60		
	Visc @ 40°C	cSt	ASTM D0045	46	41.8		
	V130 @ 40 0	COL	AOTIVI D443	+0	41.0		





Certificate L2367

Report Id: VOLVO0002 [WUSCAR] 06174375 (Generated: 05/15/2024 19:31:39) Rev: 1

Laboratory Sample No.

Lab Number : 06174375

: ML0001059 Unique Number : 11020428 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested** : 15 May 2024

: 15 May 2024 - Don Baldridge Diagnosed

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS 8450 QUARRY ROAD

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Contact: DARRELL ANDES dandes@mcclung-logan.com

\* - 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: