

[HILLSBOROUGH CO BOC]

VOLVO EW160EL 324178

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP449884	VCP433372	
	Sample Date		Client Info		13 Jun 2024	07 Nov 2023	
	Machine Age	hrs	Client Info		1437	479	
	Oil Age	hrs	Client Info		0	479	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>25	5	3	
	Chromium	ppm	ASTM D5185m	>10	<1	0	
	Nickel	ppm	ASTM D5185m	>10	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>20	3	2	
	Lead	ppm	ASTM D5185m	>20	2	1	
	Copper	ppm	ASTM D5185m	>150	15	8	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon	ppm	ASTM D5185m	>50	5	5	
	Potassium	ppm	ASTM D5185m	>20	2	2	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>40000	2092	12681	
	Particles >6µm		ASTM D7647	>10000	585	2450	
	Particles >14µm		ASTM D7647	>1300	36	84	
	Particles >21µm		ASTM D7647	>320	7	23	
	Particles >38µm		ASTM D7647	>80	0	2	
	Particles >71µm		ASTM D7647	>20	0	0	
	Oil Cleanliness		ISO 4406 (c)	>22/20/17	18/16/12	21/18/14	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	2.6	<1	<1	
	Calcium	ppm	ASTM D5185m	49	67	76	
	Phosphorus	ppm	ASTM D5185m	354	355	282	
	Zinc	ppm	ASTM D5185m	419	379	365	
	Sulfur	ppm	ASTM D5185m	3719	1331	1380	
	Acid Number (AN)	ma KOLVa	ACTM DODAS		0.20	0.40	

Acid Number (AN) mg KOH/g ASTM D8045

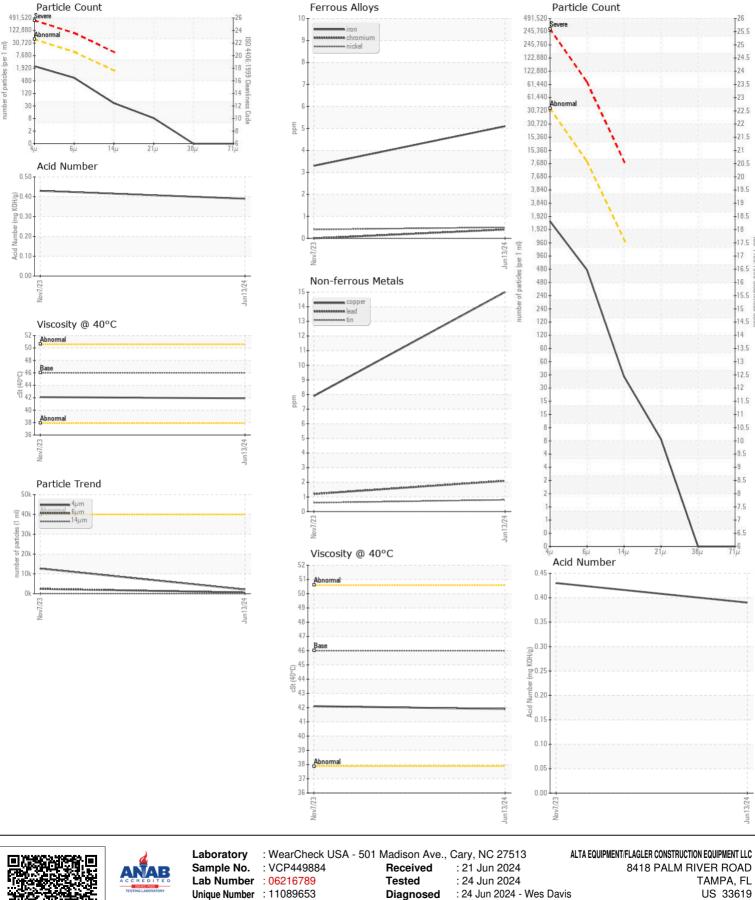
Visc @ 40°C cSt ASTM D445 46

0.43

42.1

0.39

41.9



Certificate L2367 Test Package : MOB 2 To discuss this sample report, contact (

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)

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