



## VOLVO EC460CL 110437

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Becomple at the payt convice interval to manitar	Sample Number		Client Info		ML0001858	ML0000678	VCP181444
Resample at the next service interval to monitor.	Sample Date		Client Info		22 May 2024	08 Feb 2024	15 Dec 2015
	Machine Age	hrs	Client Info		6749	0	4194
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Not Changd	Changed
	Filter Changed		Client Info		N/A	Ū	N/A
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>25	4	2	19
	Chromium	ppm	ASTM D5185m	>10	0	0	1
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	<1	3
	Lead	ppm	ASTM D5185m	>20	0	0	0
	Copper	ppm	ASTM D5185m	>150	8	9	9
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	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	>50	1	1	16
CONTAINING HON	Potassium	ppm	ASTM D5185m		0	0	10
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	le le	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		25430		10364
	Particles >6µm		ASTM D7647		4762		861
	Particles >14µm		ASTM D7647	>2500	250		49
	Particles >21µm		ASTM D7647	>640	55		19
	Particles >38µm		ASTM D7647	>160	2		2
	Particles >71µm		ASTM D7647	>40	0		0
	<b>Oil Cleanliness</b>		ISO 4406 (c)	>22/20/18	22/19/15		21/17/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	A MODER	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	4
	Boron	ppm	ASTM D5185m	14	0	2	5
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m	0.0	1	<1	3
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	2.6	17	22	16
	Calcium	ppm	ASTM D5185m	49	100	108	237
	Phosphorus	ppm	ASTM D5185m	354	322	331	306
	Zinc	ppm	ASTM D5185m	419	409	415	349
	Sulfur	ppm	ASTM D5185m	3719	2362	2032	2860
	A stal Nivershaw (ANI)				0.07	0.00	0 450

 Acid Number (AN)
 mg KOH/g
 ASTM D8045

 Visc @ 40°C
 cSt
 ASTM D445
 46

0.38

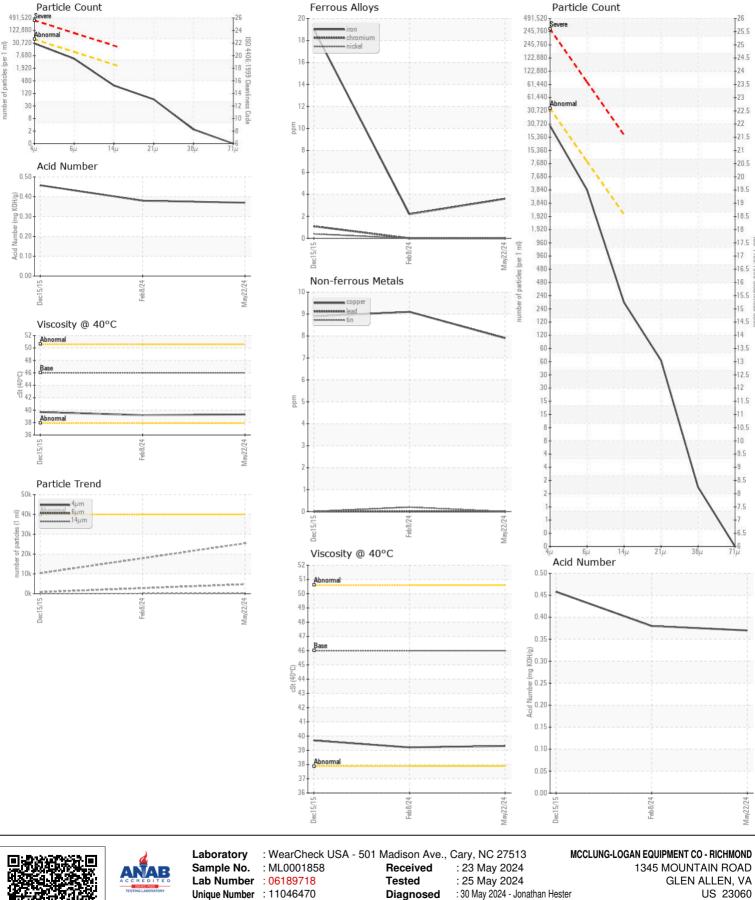
39.2

0.458

39.69

0.37

39.3



Test Package : CONST Contact: KYLE RATLIFFE Certificate L2367 KRATLIFFE@MCCLUNG-LOGAN.COM 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) F: (804)266-1611

Contact/Location: KYLE RATLIFFE - VOLVO8882

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