



Machine Id VOLVO EC480EL 314818

Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

REC	ENDA	TION	

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

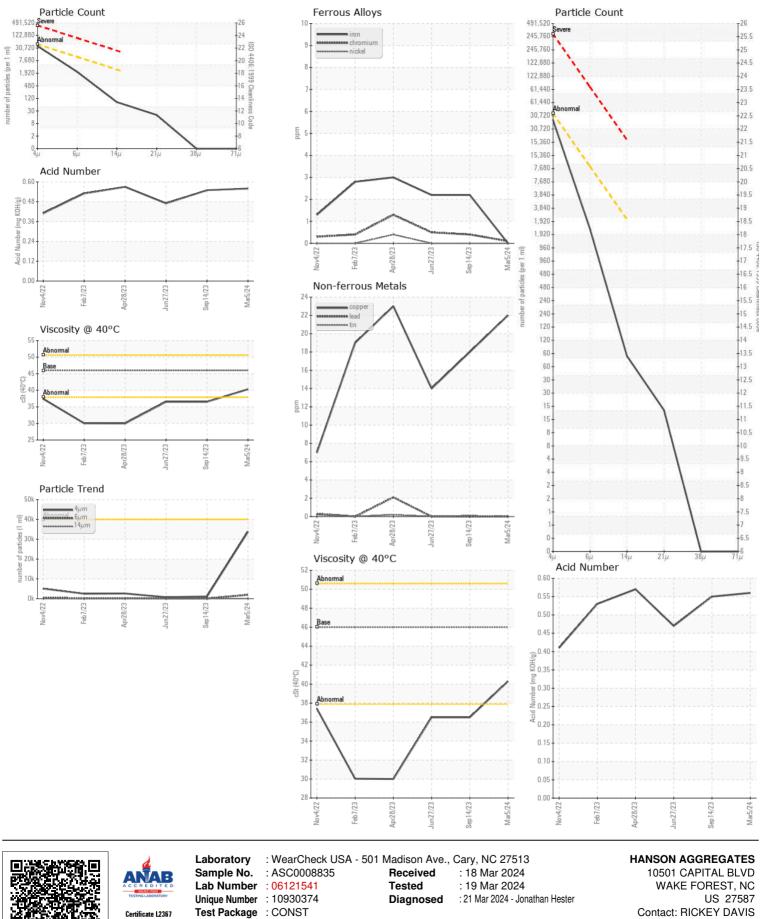
CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

FLU	\mathbf{C}	TIO	N.

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008835	VCP432521	VCP407542
Sample Date		Client Info		05 Mar 2024	14 Sep 2023	27 Jun 2023
Machine Age	hrs	Client Info		2217	1705	1409
Oil Age	hrs	Client Info		512	0	162
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>25	0	2	2
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>150	22	18	14
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	2	3	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	ppiii	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		33780	1150	766
Particles >6µm		ASTM D7647	>10000	1951	107	98
Particles >14µm		ASTM D7647		70	9	7
Particles >21µm		ASTM D7647	>640	17	2	2
Particles >38µm		ASTM D7647	>160	0	0	0
Particles >71µm		ASTM D7647	>40	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	22/18/13	17/14/10	17/14/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	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
Sodium	ppm	ASTM D5185m		2	<1	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	54	39	44
Calcium	ppm	ASTM D5185m	49	213	72	76
Phosphorus	ppm	ASTM D5185m	354	470	421	441
Zinc	ppm	ASTM D5185m	419	590	507	566
Sulfur	ppm	ASTM D5185m	3719	2105	1602	1790
Acid Number (AN)	mg KOH/g	ASTM D8045	10	0.56	0.55	0.47
Visc @ 40°C	cSt	ASTM D445	46	40.3	6.5	6.5



* - 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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