



Area [389912] Machine Id VOLVO EC250E 314186

Component 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		LH394389		
	Sample Date		Client Info		29 Dec 2023		
	Machine Age	hrs	Client Info		2000		
	Oil Age	hrs	Client Info		2000		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>25	4		
	Chromium	ppm	ASTM D5185(m)	>10	<1		
	Nickel	ppm	ASTM D5185(m)	>10	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>20	<1		
	Lead	ppm	ASTM D5185(m)	>20	1		
	Copper	ppm	ASTM D5185(m)	>150	22		
	Tin	ppm	ASTM D5185(m)	>10	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>50	4		
	Potassium	ppm	ASTM D5185(m)		1		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.	Water	%	ASTM D6304*		0.016		
	ppm Water	ppm	ASTM D6304*	>1000	169		
	Particles >4µm		ASTM D7647	>40000	15801		
	Particles >6µm		ASTM D7647	>10000	4927		
	Particles >14µm		ASTM D7647	>2500	777		
	Particles >21µm		ASTM D7647	>640	202		
	Particles >38µm		ASTM D7647	>160	7		
	Particles >71µm		ASTM D7647	>40	1		
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	21/19/17		
	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	.2%		
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
	Boron	ppm	ASTM D5185(m)	14	<1		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)	0.0	0		
	Magnesium	ppm	ASTM D5185(m)		1		
	Calcium	ppm	ASTM D5185(m)	49	118		
	Phosphorus	ppm		354	544		
	Zinc	ppm	ASTM D5185(m)		683		
		In In					

Sulfur

Visc @ 40°C

ppm ASTM D5185(m) 3719

ASTM D7279(m) 46

cSt

1302

43.9



