

## **Ascendum Machinery**

## **VOLVO EC220E 316270**

## Hydraulic System

## VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0008478		
	Sample Date		Client Info		02 Jul 2024		
	Machine Age	hrs	Client Info		568		
	Oil Age	hrs	Client Info		568		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		0		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		20		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	3		
CONTAMINATION	Potassium	ppm	ASTM D5185m		۲ ۲		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ppm		>0.1	NEG		
	Particles >4µm		ASTM D7647		4105		
	Particles >6µm		ASTM D7647		216		
	Particles >14µm		ASTM D7647		10		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness				19/15/10		
	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		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	14	0		
	Barium	ppm	ASTM D5185m	0.0	0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m	0.0	<1		
	Magnesium	ppm	ASTM D5185m	2.6	<1		
	Calcium	ppm	ASTM D5185m	49	79		
	Phosphorus	ppm	ASTM D5185m	354	425		
	Zinc	ppm	ASTM D5185m		542		
	Culture		ACTM DE10Em	0710	1010		

Sulfur

ppm ASTM D5185m 3719

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 46

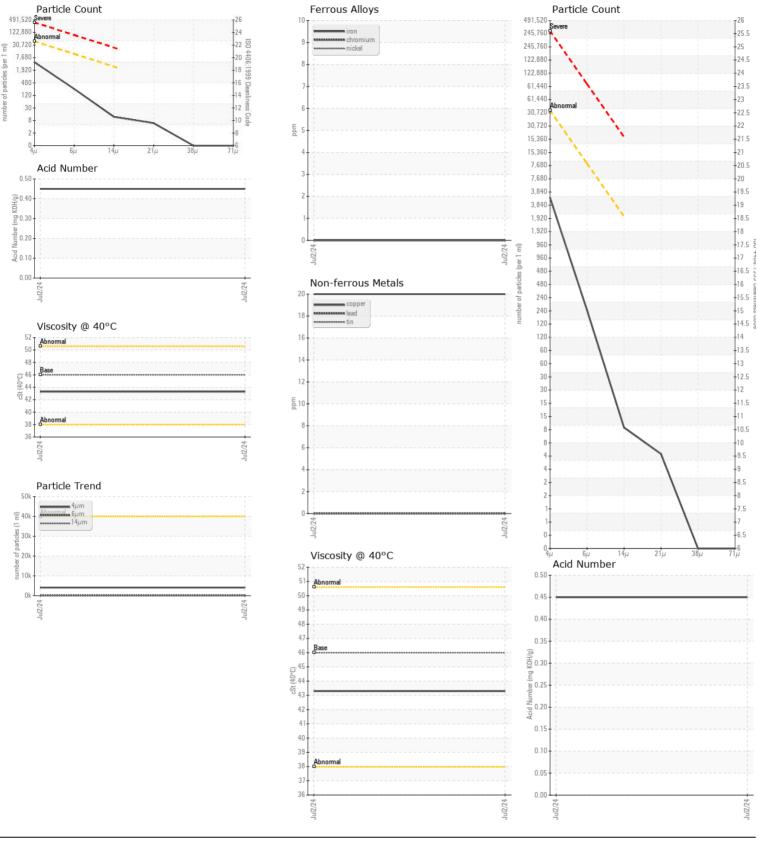
WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

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1210

0.45

43.3



CHURCHILL CONTRACTING LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ASC0008478 4101 STUART ANDREW BLVD SUITE A Received : 05 Jul 2024 ø Lab Number : 06228466 CHARLOTTE, NC Tested : 08 Jul 2024 Unique Number : 11111959 : 08 Jul 2024 - Wes Davis US 28097 Diagnosed Test Package : CONST Contact: Service Manager Certificate L2367 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. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: CLAYTON SMITH Page 2 of 2