WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

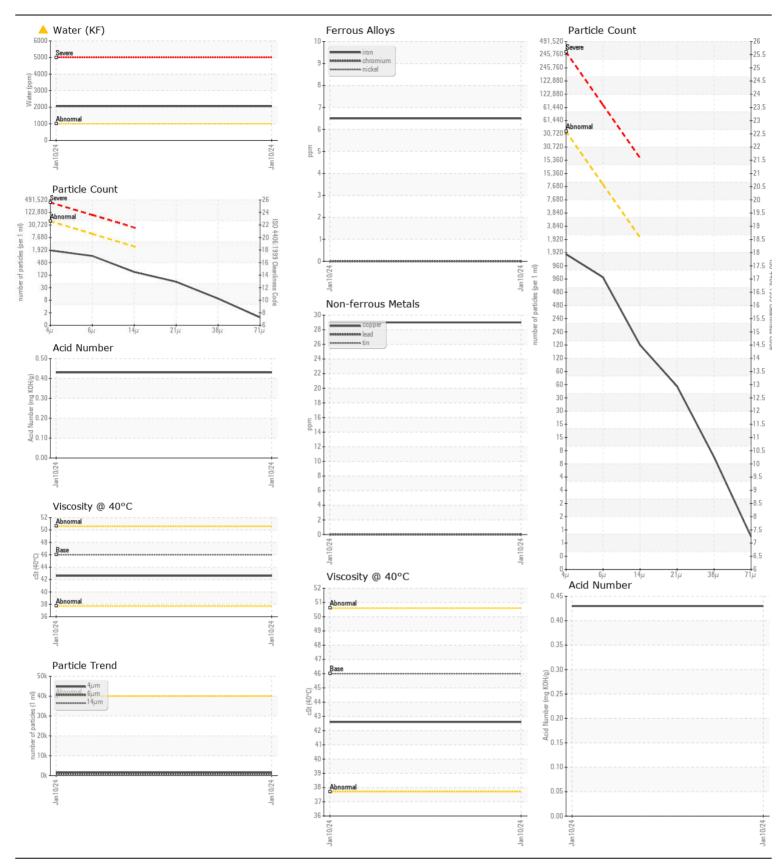


Ascendum Machinery
VOLVO EC220E 315508

Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

	_						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001550		
	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		427		
corrido intervar to monitor.	Oil Age	hrs	Client Info		427		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WFAR Iron ppm ASTM D5185m >25				. 05	6		
WEAR	Iron	ppm	ASTM D5185m		6		
All component wear rates are normal.	Chromium	ppm			0		
7 III COMPONENT MOUNTAINS AND HOME	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	00	0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		29		
	Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	0		
	White Metal	ppm	*Visual	NONE	NONE		
		scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	VISUAI	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	4		
CONTABILITATION	Potassium	ppm	ASTM D5185m		0		
There is a light concentration of water present in the oil. The amount	Water	%	ASTM D6304		△ 0.206		
and size of particulates present in the system are acceptable.	ppm Water	ppm	ASTM D6304		<u>^</u> 2060		
	Particles >4µm	PP	ASTM D7647		1618		
	Particles >6µm		ASTM D7647		881		
	Particles >14µm		ASTM D7647		150		
	Particles >21µm		ASTM D7647	>640	51		
	Particles >38µm		ASTM D7647	>160	8		
	Particles >71µm		ASTM D7647	>40	1		
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	18/17/14		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	0.2%		
ELUID CONDITION	Codium		ACTM DE10Em		4		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	1 /	<1		
The AN level is acceptable for this fluid. The condition of the oil is	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0		
suitable for further service.	Molybdenum	ppm	ASTM D5185m		0		
	•		ASTM D5185m		0		
	Manganese Magnesium	ppm ppm	ASTM D5185m		0		
	Calcium		ASTM D5185m		64		
	Phosphorus	ppm ppm	ASTM D5185m		407		
	Zinc	ppm	ASTM D5185m		515		
	Sulfur	ppm	ASTM D5185m		1082		
	Acid Number (AN)	mg KOH/g	ASTM D3103111	37 13	0.43		
	Visc @ 40°C	cSt	ASTM D445	46	42.6		
	.100 @ 40 0	007	.101111 0110	10			





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: ASC0001550 : 06059242 : 10830624

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 18 Jan 2024 Diagnostician : Jonathan Hester Test Package : MOBCE (Additional Tests: KF)

: 12 Jan 2024

ENVIRONMENTAL HOLDINGS GROUP LLC 4000 TRIANGLE LANE SUITE 160 EXPORT, PA US 15632

Contact: Service Manager

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)

T: F: