

Ascendum Machinery 310511 VOLVO EC220E 310511

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

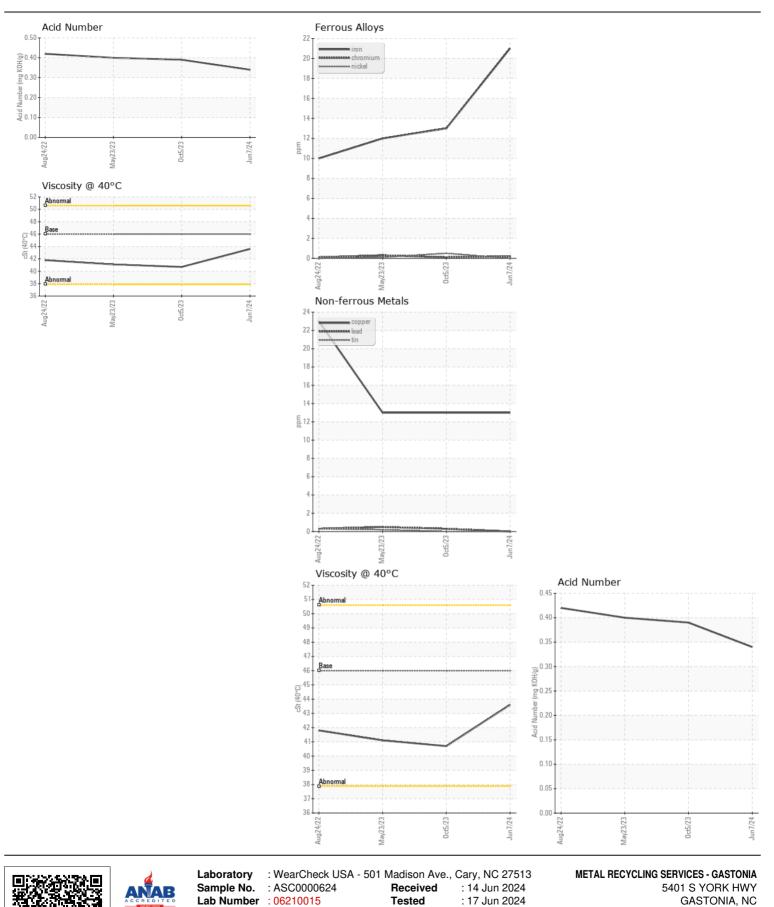
CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0000624	ASC0005457	VCP0006600
Sample Date		Client Info		07 Jun 2024	05 Oct 2023	23 May 2023
Machine Age	hrs	Client Info		5967	4852	4852
Oil Age	hrs	Client Info		4948	3833	1019
Filter Age	hrs	Client Info		0	3833	0
Oil Changed		Client Info		Changed	Oil Added	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron			>25	01	10	12
Iron	ppm	ASTM D5185m ASTM D5185m	>25	21 <1	13	<1
Chromium Nickel	ppm		-	<1 0	<1	<1
	ppm	ASTM D5185m	>10	-	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	00	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	0	0
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>150	13	13	13
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m	NOUT	<1	0	0
White Metal	scalar	*Visual	NONE	NONE	A MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	14	5	6
Potassium	ppm	ASTM D5185m	>20	2	1	2
Water	PP	WC Method	>0.1	– NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000			▲ 82613
Particles >6µm		ASTM D7647	>10000			6347
Particles >14µm		ASTM D7647	>2500			27
Particles >21µm		ASTM D7647	>640			6
Particles >38µm		ASTM D7647	>160			1
Particles >71µm		ASTM D7647	>40			0
Oil Cleanliness		ISO 4406 (c)	>22/20/18			▲ 24/20/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		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		*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		1	0	1
Boron	ppm	ASTM D5185m	14	0	1	2
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.0	1	1	2
Manganese	ppm	ASTM D5185m	0.0	0	0	<1
Magnesium	ppm	ASTM D5185m	2.6	5	7	9
Calcium	ppm	ASTM D5185m	49	92	85	99
Phosphorus	ppm	ASTM D5185m	354	272	290	303
Zinc	ppm	ASTM D5185m	419	340	366	351
Sulfur	ppm	ASTM D5185m	3719	1454	1371	1058
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.39	0.40
Visc @ 40°C	cSt	ASTM D445	46	43.6	40.7	41.1
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Unique Number : 11082879 Diagnosed : 17 Jun 2024 - Angela Borella Test Package : MOBCE Contact: RYAN BOWDEN 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)864-9863

> Submitted By: CLAYTON SMITH Page 2 of 2

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Report Id: METGAS [WUSCAR] 06210015 (Generated: 06/17/2024 11:02:15) Rev: 1