



#### Machine Id VOLVO EC220EL 314109

#### Component 5 Hydraulic System

# VOLVO SUPER HYDRAULIC OIL 46 (62 GAL)

## RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### WEAR

The iron level is severe.

# CONTAMINATION

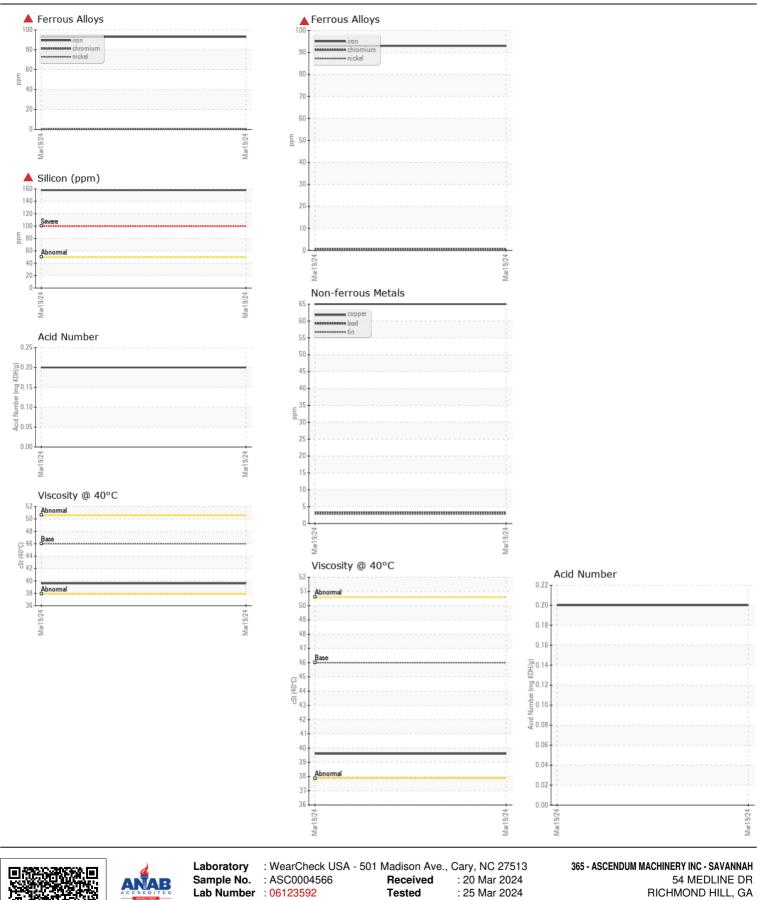
Elemental level of silicon (Si) above normal indicating ingress of seal material. High concentration of visible dirt/debris present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0004566		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		3475		
Oil Age	hrs	Client Info		3475		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
			05	A 00		
Iron	ppm	ASTM D5185m	>25	<b>▲</b> 93		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	16		
Lead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>150	65		
Tin	ppm	ASTM D5185m	>10	3		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>50	<b>158</b>		
Potassium	ppm	ASTM D5185m	>20	1		
Water	le le	WC Method	>0.1	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE			
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Sodium	ppm	ASTM D5185m		3		
Boron	ppm	ASTM D5185m	14	0		
Barium	ppm	ASTM D5185m	0.0	0		
Molybdenum	ppm	ASTM D5185m	0.0	0		
Manganese	ppm	ASTM D5185m	0.0	2		
Magnesium	ppm	ASTM D5185m	2.6	1		
Calcium	ppm	ASTM D5185m	49	49		
Phosphorus	ppm	ASTM D5185m	354	321		
Zinc	ppm	ASTM D5185m	419	387		
Sulfur	ppm	ASTM D5185m	3719	2264		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20		
Visc @ 40°C	cSt	ASTM D445	46	39.6		

Submitted By: SADE AARONS



 Unique Number
 : 10937743
 Diagnosed
 : 25 Mar 2024 - Jonathan Hester
 US 31324

 Centificate L2367
 Test Package
 : CONST
 Contact: SADE AARONS

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 sade.aarons@ascendummachinery.com

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T:

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (912)964-9515

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