WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL



## **VOLVO L220ELR 314360**

# Right Final Drive

{not provided} (--- GAL)

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We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP0008477		
Sample Date		Client Info		27 Jun 2024		
Machine Age	hrs	Client Info		1360		
Oil Age	hrs	Client Info		1360		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
		AOTM DEGOE	4000			
Iron	ppm	ASTM D5185m	>1000	<b>2580</b>		
Chromium	ppm	ASTM D5185m	>10	<b>2</b> 6		

#### **WEAR**

Gear wear is indicated. Component wear metal level(s) high for break

Iron	ppm	ASTM D5185m	>1000	<b>2580</b>	 
Chromium	ppm	ASTM D5185m	>10	<b>2</b> 6	 
Nickel	ppm	ASTM D5185m	>10	13	 
Titanium	ppm	ASTM D5185m		10	 
Silver	ppm	ASTM D5185m		0	 
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	 
Lead	ppm	ASTM D5185m	>25	0	 
Copper	ppm	ASTM D5185m	>30	2	 
Tin	ppm	ASTM D5185m	>10	0	 
Vanadium	ppm	ASTM D5185m		0	 
White Metal	scalar	*Visual	NONE	NONE	 
Yellow Metal	scalar	*Visual	NONE	NONE	 
Silicon	ppm	ASTM D5185m	>30	<b>A</b> 781	 
Potassium	ppm	ASTM D5185m	>20	33	 

#### CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>30	<b>A</b> 781	 
Potassium	ppm	ASTM D5185m	>20	33	 
Water		WC Method	>0.2	NEG	 
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	>0.2	NEG	 
Sodium	ppm	ASTM D5185m		10	 
Boron	ppm	ASTM D5185m		73	 

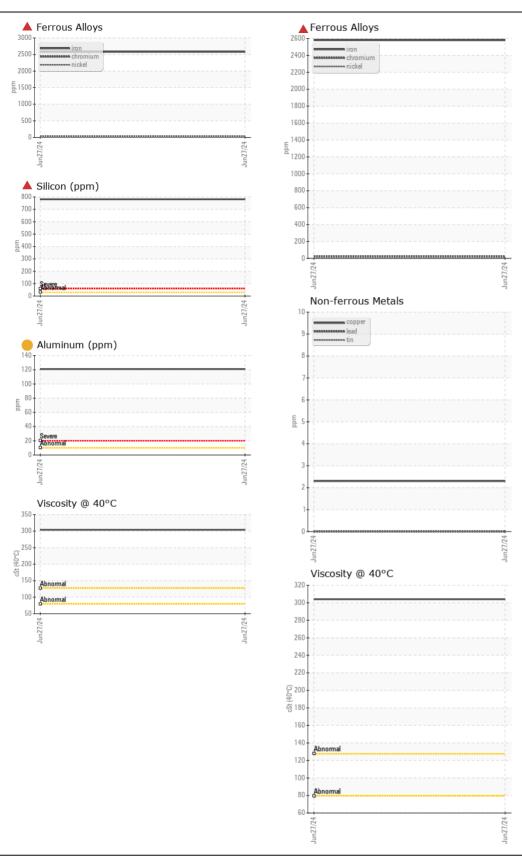
### **FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Emulsified Water	scalar	*Visual	>0.2	NEG	 
Sodium	ppm	ASTM D5185m		10	 
Boron	ppm	ASTM D5185m		73	 
Barium	ppm	ASTM D5185m		4	 
Molybdenum	ppm	ASTM D5185m		2	 
Manganese	ppm	ASTM D5185m		28	 
Magnesium	ppm	ASTM D5185m		13	 
Calcium	ppm	ASTM D5185m		239	 
Phosphorus	ppm	ASTM D5185m		894	 
Zinc	ppm	ASTM D5185m		21	 
Sulfur	ppm	ASTM D5185m		30681	 
Visc @ 40°C	cSt	ASTM D445		304	 

Report Id: VOLVO0092 [WUSCAR] 06227962 (Generated: 07/09/2024 12:44:22) Rev: 1

Submitted By: TECHNICIAN ACCOUNT





Certificate L2367

Report Id: VOLVO0092 [WUSCAR] 06227962 (Generated: 07/09/2024 12:44:24) Rev: 1

Laboratory Sample No.

: VCP0008477 Lab Number : 06227962 Unique Number : 11111455

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024 **Tested** : 05 Jul 2024

Diagnosed : 07 Jul 2024 - Don Baldridge **ALTA EQUIPMENT COMPANY** 

8750 PHILIPS HWY JACKSONVILLE, FL US 32256

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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)

Submitted By: TECHNICIAN ACCOUNT

F: (904)737-1260

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