

[139179 DOLESE] Machine Id VOLVO EC220D 210447

Front Right Final Drive

{not provided} (--- GAL)

RECOMMENDATION

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.

WEAR

The iron and chrome levels are severe. Gear wear is indicated.

CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Sample Date		Client Info		14	Jun 2024	
Machine Age	hrs	Client Info		72	49	
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		No	t Changd	
Filter Changed		Client Info		N/	A	
Sample Status				SE	EVERE	
Iron	nnm	4STM D5185m	<u>\500</u>		A56A	
Chromium	nnm	ASTM D5185m	>10		80	
Nickel	nnm	ASTM D5185m	>10		14	
Titanium	ppm	ASTM D5185m	210		56	
Silver	mag	ASTM D5185m			0	
Aluminum	ppm	ASTM D5185m	>25		807	
Lead	mag	ASTM D5185m	>25		4	
Copper	mag	ASTM D5185m	>50		11	
Tin	ppm	ASTM D5185m	>10		0	
Vanadium	ppm	ASTM D5185m			2	
White Metal	scalar	*Visual	NONE		NONE	
Yellow Metal	scalar	*Visual	NONE		NONE	
Silicon	ppm	ASTM D5185m	>75		6257	
Potassium	ppm	ASTM D5185m	>20		400	
Water	%	ASTM D6304	>0.2		0.358	
ppm Water	ppm	ASTM D6304	>2000		3580	
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		0.2%	
Sodium	ppm	ASTM D5185m			144	
Boron	ppm	ASTM D5185m			25	
Barium	ppm	ASTM D5185m			12	
Molybdenum	ppm	ASTM D5185m			13	
Manganese	ppm	ASTM D5185m			38	
Magnesium	ppm	ASTM D5185m			158	
Calcium	ppm	ASTM D5185m			2413	
Phosphorus	ppm	ASTM D5185m			777	
Zinc	ppm	ASTM D5185m			693	
Sulfur	ppm	ASTM D5185m			7326	
Visc @ 40°C	cSt	ASTM D445			177	

FLUID CONDITION

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

Contact/Location: MIKE DEVORE - VOLVO0053

WEAR SEVERE CONTAMINATION SEVERE FLUID CONDITION NORMAL

Current

VCP413748

History1

History2

l imit/Abn

UOM

Method

Client Info

Test

Sample Number



THE GW VAN KEPPEL CO Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 口情 Sample No. 1876 NORTH 105TH EAST AVENUE : VCP413748 Received : 17 Jun 2024 Lab Number : 06212159 Tested : 19 Jun 2024 TULSA, OK : 19 Jun 2024 - Don Baldridge US 74116 Unique Number : 11085023 Diagnosed Test Package : MOB 1 (Additional Tests: KF) Contact: MIKE DEVORE Certificate L2367 MDEVORE@VANKEPPEL.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. T: (918)836-8851 F: (918)834-1659 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MIKE DEVORE - VOLVO0053 Page 2 of 2