



# CONSTRUCTION EQUIPMENT

## VOLVO EC160EL 310424 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP413252  
**Oil Type:** DRYDENE LIMITED SLIP GEAR 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP413252</b>	VCP361153	VCP361156	VCP319463
Sample Date	<b>20 Nov 2023</b>	16 Jan 2023	14 Jun 2022	15 Sep 2021
Machine Hours	<b>4000</b>	3500	3000	2000
Oil Hours	<b>1000</b>	500	1000	225
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	SEVERE	ABNORMAL

**DH FUNK AND SONS LLC**  
 3995 CONTINENTAL DRIVE  
 COLUMBIA, PA  
 US 17512  
 Contact: GARY SHEPHERD  
 GSHEPHERD@DHFUNK.COM  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>112</b>	127	126	124
-------------	-----	------------	-----	-----	-----



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	0.152	NEG
Silicon	ppm	<b>227</b>	270	680	126
Sodium	ppm	<b>4</b>	4	12	3
Potassium	ppm	<b>11</b>	25	49	9

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>713</b>	610	1630	501
Copper	ppm	<b>&lt;1</b>	<1	2	<1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>35</b>	97	120	29
Chromium	ppm	<b>3</b>	3	10	5
Molybdenum	ppm	<b>6</b>	4	3	2
Nickel	ppm	<b>&lt;1</b>	1	4	<1
Titanium	ppm	<b>3</b>	4	14	3
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>5</b>	5	14	5
Vanadium	ppm	<b>0</b>	<1	<1	<1



### ADDITIVES

Calcium	ppm	<b>170</b>	92	180	101
Magnesium	ppm	<b>50</b>	36	70	66
Zinc	ppm	<b>177</b>	57	71	82
Phosphorus	ppm	<b>589</b>	797	813	939
Barium	ppm	<b>&lt;1</b>	<1	0	0
Boron	ppm	<b>30</b>	94	60	128

**Depot:** DHFCOL  
**Unique No:** 10755974  
**Signed:** Sean Felton  
**Report Date:** 28 Nov 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

