



# CONSTRUCTION EQUIPMENT

## SW-35465-2 TEARAPART VOLVO EC160 310236 - SWING DRIVE



**Sample No:** VCP454196  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SW-35465-2 TEARAPART



### SAMPLE INFORMATION

Sample Number	<b>VCP454196</b>	VCP254020	VCP242974	VCP218022
Sample Date	<b>17 Jun 2024</b>	05 Oct 2020	13 Mar 2019	12 Oct 2017
Machine Hours	<b>3935</b>	2939	2112	532
Oil Hours	<b>0</b>	0	0	532
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

**ARNOLD MACHINERY COMPANY**  
 2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
 US 84119  
 Contact: TONY PAYAN  
 tpayan@arnoldmachinery.com  
 T: (801)972-4000  
 F: (801)975-9434



### OIL CONDITION

Visc @ 40°C	cSt	<b>264.3</b>	101	127.0	182.8
-------------	-----	--------------	-----	-------	-------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>5</b>	9	23	28
Sodium	ppm	<b>2</b>	1	1	2
Potassium	ppm	<b>7</b>	3	0	11

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	<b>329</b>	605	466	426
Copper	ppm	<b>11</b>	14	8	19
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>0</b>	0	2	1
Chromium	ppm	<b>4</b>	6	6	7
Molybdenum	ppm	<b>&lt;1</b>	1	0	0
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>4</b>	6	5	8
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>16</b>	60	24	2
Magnesium	ppm	<b>&lt;1</b>	10	10	<1
Zinc	ppm	<b>83</b>	214	88	20
Phosphorus	ppm	<b>943</b>	803	837	422
Barium	ppm	<b>0</b>	0	<1	3
Boron	ppm	<b>96</b>	93	100	<1

**Depot:** VOLVO8770  
**Unique No:** 11099825  
**Signed:** Jonathan Hester  
**Report Date:** 01 Jul 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

