



# CONSTRUCTION EQUIPMENT

## SWO-071782 VULCAN VOLVO EC380EL 310021 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP453735  
**Oil Type:** {unknown}  
**Job No:** SWO-071782 VULCAN



### SAMPLE INFORMATION

Sample Number	<b>VCP453735</b>	VCP428707	VCP428913	VCP407504
Sample Date	<b>06 May 2024</b>	21 Dec 2023	07 Sep 2023	18 May 2023
Machine Hours	<b>11224</b>	10648	10247	9662
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

### WHITAKER CONTRACTING

692 CONVICT CAMP RD  
 GUNTERSVILLE, AL  
 US 35976  
 Contact: BROTHER WHITAKER  
 BrotherWhitaker@whitaker-contracting.com  
 T: (256)298-3905  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>321</b>	303	466	388
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>▲ 906</b>	▲ 534	▲ 2021	▲ 1600
Sodium	ppm	<b>■ 18</b>	■ 0	■ 38	■ 25
Potassium	ppm	<b>■ 74</b>	■ 38	■ 147	■ 124

### Diagnosis

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. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	<b>▲ 2404</b>	▲ 1892	▲ 5040	▲ 3439
Copper	ppm	<b>■ 5</b>	■ 0	■ 10	■ 7
Lead	ppm	<b>■ 1</b>	■ 0	■ 1	■ <1
Tin	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Aluminum	ppm	<b>● 217</b>	● 119	● 463	● 415
Chromium	ppm	<b>▲ 21</b>	■ 6	▲ 39	▲ 28
Molybdenum	ppm	<b>9</b>	■ 5	9	7
Nickel	ppm	<b>■ 5</b>	■ 0	■ 7	■ 6
Titanium	ppm	<b>▲ 14</b>	4	■ 32	■ 26
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>15</b>	■ 6	32	24
Vanadium	ppm	<b>&lt;1</b>	0	1	<1



### ADDITIVES

Calcium	ppm	<b>327</b>	■ 178	573	492
Magnesium	ppm	<b>84</b>	50	145	118
Zinc	ppm	<b>81</b>	■ 71	72	59
Phosphorus	ppm	<b>880</b>	■ 890	872	845
Barium	ppm	<b>3</b>	■ 5	0	4
Boron	ppm	<b>103</b>	■ 91	133	122

**Depot:** WHIGUN  
**Unique No:** 11020298  
**Signed:** Angela Borella  
**Report Date:** 13 May 2024



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## VOLVO GRAPHS

