



CONSTRUCTION EQUIPMENT

SWO-071782 VULCAN VOLVO EC380EL 310021 - SWING DRIVE



Sample No: VCP453705
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWO-071782 VULCAN



SAMPLE INFORMATION

Sample Number	VCP453705	VCP428702	VCP428933	VCP407511
Sample Date	06 May 2024	21 Dec 2023	07 Sep 2023	18 May 2023
Machine Hours	11224	10648	10247	9662
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

WHITAKER CONTRACTING

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



OIL CONDITION

Visc @ 40°C	cSt	308	267	278	264
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CONTAMINATION

Water	%	▲ 3.77	▲ 3.25	▲ 6.80	▲ 5.11
Silicon	ppm	17	16	26	32
Sodium	ppm	0	0	5	7
Potassium	ppm	1	0	6	2



WEAR METALS

Iron	ppm	222	302	524	423
Copper	ppm	37	▲ 122	▲ 114	▲ 109
Lead	ppm	2	0	2	<1
Tin	ppm	2	0	2	0
Aluminum	ppm	4	5	7	12
Chromium	ppm	3	1	8	7
Molybdenum	ppm	8	0	4	4
Nickel	ppm	0	0	<1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	5	2	12	10
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	101	83	120	108
Magnesium	ppm	32	14	23	21
Zinc	ppm	162	187	235	211
Phosphorus	ppm	975	877	878	841
Barium	ppm	<1	5	0	3
Boron	ppm	99	79	125	111

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: WHIGUN
Unique No: 11020271
Signed: Don Baldrige
Report Date: 13 May 2024



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GRAPHS

