



CONSTRUCTION EQUIPMENT

23623 VOLVO EC380EL 311791 - REAR LEFT FINAL DRIVE



Sample No: VCP406168
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 23623



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
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SAMPLE INFORMATION

Sample Number	VCP406168	VCP356394	---	---
Sample Date	27 Jun 2023	24 Jun 2022	---	---
Machine Hours	6647	4662	---	---
Oil Hours	2000	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	99.8	49.9	---	---
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CONTAMINATION

Water	%	0.422	---	---	---
Silicon	ppm	2757	<1	---	---
Sodium	ppm	5	<1	---	---
Potassium	ppm	24	0	---	---



WEAR METALS

Iron	ppm	8150	<1	---	---
Copper	ppm	14	0	---	---
Lead	ppm	1	0	---	---
Tin	ppm	2	0	---	---
Aluminum	ppm	243	0	---	---
Chromium	ppm	81	0	---	---
Molybdenum	ppm	14	4	---	---
Nickel	ppm	6	0	---	---
Titanium	ppm	30	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	52	0	---	---
Vanadium	ppm	1	0	---	---



ADDITIVES

Calcium	ppm	2632	46	---	---
Magnesium	ppm	62	18	---	---
Zinc	ppm	39	49	---	---
Phosphorus	ppm	1861	2223	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	219	264	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a moderate concentration of water present in the oil. 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.

Depot: VOLVO3387
Unique No: 10538576
Signed: Don Baldrige
Report Date: 04 Jul 2023



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GRAPHS

