



CONSTRUCTION EQUIPMENT

VOLVO A40F 12386 - REAR AXLE



Sample No: VCP449334
Oil Type: MOBIL MOBILUBE HD PLUS 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP449334	VCP402904	VCP406056	VCP373723
Sample Date	18 Jun 2024	19 Jul 2023	22 Mar 2023	22 Aug 2022
Machine Hours	13301	11382	10781	9653
Oil Hours	965	601	1128	1082
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	129	132	130	137
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 266	2	1	4
Sodium	ppm	6	<1	<1	0
Potassium	ppm	19	<1	0	0

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. We recommend an early resample to monitor this condition. All component wear rates are normal. 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	194	4	5	5
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	1
Aluminum	ppm	● 68	0	<1	1
Chromium	ppm	1	0	0	0
Molybdenum	ppm	<1	1	1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	3	<1	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	3	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	208	375	435	322
Magnesium	ppm	16	8	10	7
Zinc	ppm	133	132	171	120
Phosphorus	ppm	862	932	942	959
Barium	ppm	<1	0	0	0
Boron	ppm	32	167	161	203

Depot: SCHGRE
Unique No: 11111392
Signed: Don Baldrige
Report Date: 07 Jul 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

