



CONSTRUCTION EQUIPMENT

A11864 ALPHA VOLVO EC160E 314175 - HYDRAULIC SYSTEM



Sample No: VCP432248
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11864 ALPHA



SAMPLE INFORMATION

Sample Number	VCP432248	VCP426954	VCP399926	VCP365746
Sample Date	12 Jan 2024	16 Aug 2023	02 Mar 2023	01 Dec 2022
Machine Hours	6540	5360	4350	3841
Oil Hours	2000	1000	2000	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
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OIL CONDITION

Visc @ 40°C	cSt	42.4	41.8	38.7	---
Acid Number (AN)	mg KOH/g	0.87	0.94	1.03	---



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		29228	10619	2264	71547
Particles >6µm		903	482	292	14883
Particles >14µm		5	12	19	352
ISO 4406:1999 (c)		22/17/10	21/16/11	18/15/11	23/21/16
Silicon	ppm	3	3	5	4
Sodium	ppm	0	<1	1	1
Potassium	ppm	3	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	5	3	5	4
Copper	ppm	22	19	34	24
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	<1	2	1
Chromium	ppm	2	2	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1803	1532	2555	2085
Magnesium	ppm	10	8	6	6
Zinc	ppm	926	810	1122	1012
Phosphorus	ppm	859	672	1006	843
Barium	ppm	1	0	0	0
Boron	ppm	2	0	<1	2

Depot: VOLVO8879
Unique No: 10836381
Signed: Don Baldrige
Report Date: 22 Jan 2024

