



CONSTRUCTION EQUIPMENT

A10644 FREEDOM VOLVO ECR145E 314328 - SWING DRIVE



Sample No: VCP427164
Oil Type: MOBIL MOBILUBE HD PLUS 85W140
Job No: A10644 FREEDOM



SAMPLE INFORMATION

Sample Number	VCP427164	VCP398894	VCP365741	VCP348058
Sample Date	11 Jul 2023	15 Feb 2023	05 Dec 2022	18 Feb 2022
Machine Hours	5260	4595	4345	3100
Oil Hours	1000	1000	0	1000
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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OIL CONDITION

Visc @ 40°C	cSt	288	244	241	251
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CONTAMINATION

Silicon	ppm	6	13	12	10
Sodium	ppm	0	<1	0	<1
Potassium	ppm	1	<1	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	81	84	81	65
Copper	ppm	3	8	7	6
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	2	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	30	37	31
Magnesium	ppm	2	4	4	3
Zinc	ppm	13	23	23	14
Phosphorus	ppm	848	1020	975	1197
Barium	ppm	0	0	0	0
Boron	ppm	39	174	161	177

Depot: VOLVO8879
Unique No: 10560350
Signed: Don Baldrige
Report Date: 17 Jul 2023



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GRAPHS

