



CONSTRUCTION EQUIPMENT

MARTIN MARIETTA VOLVO A60H 340053 - DROP BOX



Sample No: VCP423986
Oil Type: CHEVRON DELO GEAR ESI OIL 80W90
Job No: MARTIN MARIETTA



SAMPLE INFORMATION

Sample Number	VCP423986	VCP420935	VCP322666	VCP293938
Sample Date	28 Aug 2023	28 Mar 2023	17 May 2021	06 Mar 2021
Machine Hours	7391	6735	4220	3845
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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 1150 WEST OLD SETTLERS BOULEVARD
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OIL CONDITION

Visc @ 40°C	cSt	134	115	133	132
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CONTAMINATION

Silicon	ppm	28	8	11	8
Sodium	ppm	0	0	2	<1
Potassium	ppm	4	2	0	6

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	115	373	52	99
Copper	ppm	1	74	2	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	8	6	2	5
Chromium	ppm	2	4	<1	1
Molybdenum	ppm	<1	1	2	<1
Nickel	ppm	1	2	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	4	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	30	480	38	18
Magnesium	ppm	2	7	2	2
Zinc	ppm	9	236	17	36
Phosphorus	ppm	966	999	873	473
Barium	ppm	0	0	0	0
Boron	ppm	187	133	170	76

Depot: VOLVO0088
Unique No: 10660012
Signed: Don Baldrige
Report Date: 24 Sep 2023



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GRAPHS

