



CONSTRUCTION EQUIPMENT

SWO-064552 VOLVO A45G 352 134 - DIESEL ENGINE



Sample No: VCP416406
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-064552



SAMPLE INFORMATION

Sample Number	VCP416406	VCP413257	VCP401941	VCP396658
Sample Date	31 Jul 2023	31 May 2023	04 Apr 2023	06 Feb 2023
Machine Hours	7719	7234	6763	6236
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	13.2	13.2
Base Number (BN)	mg KOH/g	10.0	9.8	9.6	9.4
Oxidation (PA)	%	83	82	81	80



CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.6
Nitration (PA)	%	64	64	65	68
Sulfation (PA)	%	63	63	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	6
Sodium	ppm	2	1	2	2
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	6	8	11	22
Copper	ppm	<1	0	0	<1
Lead	ppm	<1	0	0	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	3	0	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	38	41	43	43
Nickel	ppm	<1	<1	0	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1742	1765	1601	1638
Magnesium	ppm	501	545	488	503
Zinc	ppm	1187	1260	1048	1062
Phosphorus	ppm	954	982	888	852
Barium	ppm	0	0	0	0
Boron	ppm	34	40	53	50

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: SAIBIR
Unique No: 10587690
Signed: Doug Bogart
Report Date: 06 Aug 2023



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GRAPHS

