



CONSTRUCTION EQUIPMENT

SWO-065619 VOLVO A45G 353092 - DIESEL ENGINE



Sample No: VCP433851
Oil Type: MOBIL 15W40
Job No: SWO-065619



SAMPLE INFORMATION

Sample Number	VCP433851	VCP407793	VCP395497	VCP390475
Sample Date	19 Sep 2023	09 Jun 2023	23 Feb 2023	26 Oct 2022
Machine Hours	2012	1497	1000	571
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	▲ 12.3	10.6
Base Number (BN)	mg KOH/g	10.1	9.4	9.4	10.3
Oxidation (PA)	%	80	84	76	74

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.



CONTAMINATION

Soot %	%	0.3	0.3	0.3	1.6
Nitration (PA)	%	57	57	64	89
Sulfation (PA)	%	61	63	61	72
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.7
Silicon	ppm	7	7	2	28
Sodium	ppm	2	2	0	1
Potassium	ppm	0	1	2	0



WEAR METALS

Iron	ppm	8	9	2	19
Copper	ppm	2	8	<1	324
Lead	ppm	<1	1	<1	1
Tin	ppm	1	2	<1	4
Aluminum	ppm	0	3	1	2
Chromium	ppm	<1	<1	0	1
Molybdenum	ppm	38	44	68	77
Nickel	ppm	1	2	0	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1723	1695	1163	2070
Magnesium	ppm	501	524	731	12
Zinc	ppm	1119	1179	1052	1175
Phosphorus	ppm	903	971	891	991
Barium	ppm	0	0	0	0
Boron	ppm	40	52	22	57

Depot: SAIBIR
Unique No: 10660830
Signed: Don Baldrige
Report Date: 26 Sep 2023



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GRAPHS

