



CONSTRUCTION EQUIPMENT

SWA512857 IAA JUPITE VOLVO L90H 625959 - DIESEL ENGINE



Sample No: VCP454048
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA512857 IAA JUPITE



SAMPLE INFORMATION

Sample Number	VCP454048	VCP449123	VCP433827	VCP413382
Sample Date	25 Mar 2024	27 Dec 2023	19 Sep 2023	26 Jun 2023
Machine Hours	4542	3954	3330	2774
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.6	14.6	14.7
Base Number (BN)	mg KOH/g	9.3	9.4	9.5	9.6
Oxidation (PA)	%	63	61	59	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.4	0.4
Nitration (PA)	%	68	67	62	65
Sulfation (PA)	%	53	53	53	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	4	4
Sodium	ppm	2	<1	1	<1
Potassium	ppm	2	<1	<1	1



WEAR METALS

Iron	ppm	38	55	63	78
Copper	ppm	1	<1	<1	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	3	4	<1
Chromium	ppm	1	<1	2	2
Molybdenum	ppm	56	56	64	59
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1118	1047	1173	1108
Magnesium	ppm	1005	987	1081	990
Zinc	ppm	1309	1309	1387	1307
Phosphorus	ppm	897	976	1136	1026
Barium	ppm	0	0	0	14
Boron	ppm	0	0	<1	5

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: VOLVO0095
Unique No: 10949736
Signed: Don Baldrige
Report Date: 29 Mar 2024



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GRAPHS

