



CONSTRUCTION EQUIPMENT

S50401818 PYP JURUPA VOLVO L90H 624461 - DIESEL ENGINE



Sample No: VCP441933
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50401818 PYP JURUPA



SAMPLE INFORMATION

Sample Number	VCP441933	VCP424281	VCP314832	VCP314095
Sample Date	19 Oct 2023	11 Jul 2023	27 Aug 2021	21 May 2021
Machine Hours	9550	0	5784	5217
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.3	15.2	13.5	13.4
Base Number (BN)	mg KOH/g	11.1	7.2	---	---
Oxidation (PA)	%	81	101	80	90



CONTAMINATION

Soot %	%	0.9	2.8	0.8	1.2
Nitration (PA)	%	59	120	62	77
Sulfation (PA)	%	63	76	63	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	9	4	7
Sodium	ppm	2	5	2	2
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	8	38	11	17
Copper	ppm	<1	4	<1	1
Lead	ppm	<1	1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	26	6	7
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	36	45	41	40
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1556	1860	1698	1563
Magnesium	ppm	479	531	510	469
Zinc	ppm	1080	1224	1136	1051
Phosphorus	ppm	926	942	984	913
Barium	ppm	0	0	0	0
Boron	ppm	30	11	32	29

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: VOLVO4486
Unique No: 10724532
Signed: Wes Davis
Report Date: 02 Nov 2023



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GRAPHS

