



CONSTRUCTION EQUIPMENT

VOLVO L90H 623478 - DIESEL ENGINE



Sample No: VCP416266
Oil Type: CHEVRON DELO 400 SDE SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416266	VCP258375	VCP229003	VCP228654
Sample Date	12 Jun 2024	14 Jan 2020	12 Aug 2019	18 Dec 2018
Machine Hours	6274	3499	3003	2508
Oil Hours	0	1000	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.9	13.4	13.52
Base Number (BN)	mg KOH/g	7.6	---	---	---
Oxidation (PA)	%	55	67	67	67

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.3	0.4
Nitration (PA)	%	53	67	67	68
Sulfation (PA)	%	54	59	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	8
Sodium	ppm	1	2	3	2
Potassium	ppm	2	0	2	0



WEAR METALS

Iron	ppm	2	8	9	15
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	6	10	11	16
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	94	96	123	123
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1406	1566	1440	1431
Magnesium	ppm	469	496	536	551
Zinc	ppm	1185	1006	800	825
Phosphorus	ppm	904	811	686	728
Barium	ppm	0	0	0	0
Boron	ppm	354	284	253	204

Depot: INSDON
Unique No: 11098960
Signed: Wes Davis
Report Date: 27 Jun 2024



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GRAPHS

