



CONSTRUCTION EQUIPMENT

SWA578656-10 VOLVO L220H 2824 - DIESEL ENGINE



Sample No: VCP412929
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA578656-10



SAMPLE INFORMATION

Sample Number	VCP412929	VCP424053	VCP396053	VCP405566
Sample Date	06 Jun 2024	19 Aug 2023	16 May 2023	01 Mar 2023
Machine Hours	15172	12965	12185	11698
Oil Hours	500	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:

OIL CONDITION

Visc @ 100°C	cSt	12.8	8.7	11.8	12.6
Base Number (BN)	mg KOH/g	9.0	9.5	9.9	10.0
Oxidation (PA)	%	62	85	77	79

T:
F:

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 %	%	0.4	0.4	0.2	0.3
Nitration (PA)	%	62	68	56	64
Sulfation (PA)	%	54	63	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	<1.0
Silicon	ppm	6	6	4	3
Sodium	ppm	<1	3	2	0
Potassium	ppm	2	0	0	<1

WEAR METALS

Iron	ppm	8	8	4	4
Copper	ppm	2	1	<1	0
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	1	<1	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	59	41	45	38
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1170	1710	1625	1568
Magnesium	ppm	854	510	499	436
Zinc	ppm	1177	1104	1055	1029
Phosphorus	ppm	946	929	852	867
Barium	ppm	0	0	0	<1
Boron	ppm	16	22	47	30

Depot: CALEAS
Unique No: 11073562
Signed: Wes Davis
Report Date: 12 Jun 2024



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GRAPHS

