



CONSTRUCTION EQUIPMENT

578187 VOLVO L220H 3197 - DIESEL ENGINE



Sample No: VCP430300
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 578187



SAMPLE INFORMATION

Sample Number	VCP430300	VCP405636	VCP359860	VCP336129
Sample Date	20 Jun 2024	28 Mar 2023	20 Jun 2022	03 Sep 2021
Machine Hours	9053	6366	4933	3905
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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

OIL CONDITION

Visc @ 100°C	cSt	12.2	11.7	11.6	11.9
Base Number (BN)	mg KOH/g	9.2	6.7	6.7	---
Oxidation (PA)	%	81	78	84	78

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 %	%	0.1	0.2	0.3	0.3
Nitration (PA)	%	63	78	82	79
Sulfation (PA)	%	61	60	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.2	<1.0
Silicon	ppm	6	7	5	2
Sodium	ppm	2	1	<1	2
Potassium	ppm	0	2	3	<1

WEAR METALS

Iron	ppm	15	17	16	2
Copper	ppm	<1	2	4	8
Lead	ppm	0	<1	1	<1
Tin	ppm	0	<1	1	<1
Aluminum	ppm	1	2	2	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	54	40	44
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	4	2
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1764	1544	1441	1481
Magnesium	ppm	531	480	451	505
Zinc	ppm	1174	1059	1036	965
Phosphorus	ppm	1004	887	806	772
Barium	ppm	0	2	0	0
Boron	ppm	37	25	22	26

Depot: CALEAS
Unique No: 11090606
Signed: Wes Davis
Report Date: 25 Jun 2024



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VOLVO GRAPHS

