



CONSTRUCTION EQUIPMENT

579739 VOLVO L90H 624033 - DIESEL ENGINE



Sample No: VCP425794
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579739



SAMPLE INFORMATION

Sample Number	VCP425794	VCP403966	VCP400230	VCP364497
Sample Date	18 Jul 2023	01 Apr 2023	07 Dec 2022	01 Sep 2022
Machine Hours	9461	8904	8375	7892
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 13.1	█ 13.1	█ 13.2
Base Number (BN)	mg KOH/g	█ 10.1	█ 10.4	█ 11.3	█ 11.8
Oxidation (PA)	%	█ 78	█ 79	█ 85	█ 87

CONTAMINATION

Soot %	%	█ 0.5	█ 0.4	█ 0.4	█ 0.4
Nitration (PA)	%	█ 62	█ 59	█ 63	█ 69
Sulfation (PA)	%	█ 59	█ 60	█ 65	█ 64
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ 5	█ 5	█ 4	█ 6
Sodium	ppm	█ 2	█ 3	█ 0	█ 1
Potassium	ppm	█ 0	█ 0	█ 2	█ <1

WEAR METALS

Iron	ppm	█ 9	█ 7	█ 7	█ 9
Copper	ppm	█ <1	█ <1	█ 6	█ 2
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ <1	█ 0	█ <1	█ <1
Aluminum	ppm	█ 4	█ 4	█ 4	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 47	█ 54	█ 43	█ 42
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	█ 0	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	█ 0	█ 0	█ 0	█ 0

ADDITIVES

Calcium	ppm	█ 1828	█ 1730	█ 1673	█ 1719
Magnesium	ppm	█ 555	█ 543	█ 469	█ 484
Zinc	ppm	█ 1234	█ 1154	█ 1060	█ 1098
Phosphorus	ppm	█ 1024	█ 979	█ 883	█ 921
Barium	ppm	█ <1	█ 0	█ 0	█ 0
Boron	ppm	█ 35	█ 47	█ 35	█ 30

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: RIPTAM
Unique No: 10566552
Signed: Wes Davis
Report Date: 24 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

