



CONSTRUCTION EQUIPMENT

SPM689362 VOLVO L90G 617626 - DIESEL ENGINE



Sample No: VCP437381
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM689362



SAMPLE INFORMATION

Sample Number	VCP437381	VCP415057	VCP423406	VCP355368
Sample Date	05 Apr 2024	19 Oct 2023	07 Jun 2023	12 Jul 2022
Machine Hours	11322	10821	11059	10540
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

IAA - INSURANCE AUTO AUCTIONS - AURORA
 280 E SULLIVAN
 AURORA, IL
 US 60505
 Contact: Service Manager

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.9	13.6	13.3
Base Number (BN)	mg KOH/g	9.8	9.8	9.6	10.2
Oxidation (PA)	%	55	54	60	62

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	0.4
Nitration (PA)	%	48	48	53	73
Sulfation (PA)	%	49	49	52	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	5	4
Sodium	ppm	7	22	69	33
Potassium	ppm	4	13	49	21

WEAR METALS

Iron	ppm	10	14	11	8
Copper	ppm	0	<1	<1	1
Lead	ppm	0	0	<1	1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	1	5	6	5
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	65	54	62	60
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1206	911	1050	1072
Magnesium	ppm	1089	895	966	958
Zinc	ppm	1346	1137	1330	1209
Phosphorus	ppm	1170	961	1083	1000
Barium	ppm	0	0	0	0
Boron	ppm	5	0	<1	2

Depot: INSAUR
Unique No: 10977074
Signed: Wes Davis
Report Date: 15 Apr 2024



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GRAPHS

