



CONSTRUCTION EQUIPMENT

9539 VOLVO L180F 3119 - DIESEL ENGINE



Sample No: VCP413822
Oil Type: CHEVRON 15W40
Job No: 9539



SAMPLE INFORMATION

Sample Number	VCP413822	VCP408924	VCP387943	VCP318332
Sample Date	25 Aug 2023	20 Jun 2023	05 Apr 2023	10 Oct 2022
Machine Hours	19441	19229	18471	17087
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

WHEELABRATOR
 1801 ANNAPOLIS RD
 BALTIMORE, MD
 US 21230
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	13.2	12.8	13.2	13.3
Base Number (BN)	mg KOH/g	7.3	5.9	5.4	7.6
Oxidation (PA)	%	59	71	65	76

T: (215)428-7902
 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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	49	62	59	73
Sulfation (PA)	%	57	64	58	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	14	6	34
Sodium	ppm	2	2	4	2
Potassium	ppm	1	<1	5	3

WEAR METALS

Iron	ppm	7	12	42	5
Copper	ppm	<1	<1	2	<1
Lead	ppm	<1	1	0	2
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	5	4
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	94	86	44	114
Nickel	ppm	0	0	0	0
Titanium	ppm	1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1546	1402	1238	1503
Magnesium	ppm	447	424	881	506
Zinc	ppm	1373	1276	1140	1128
Phosphorus	ppm	1154	1029	928	934
Barium	ppm	0	0	0	0
Boron	ppm	496	285	11	263

Depot: WHEBAL
Unique No: 10634931
Signed: Wes Davis
Report Date: 08 Sep 2023



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VOLVO GRAPHS

