



CONSTRUCTION EQUIPMENT

SW1024076 MGC VOLVO L70H 622185 - DIESEL ENGINE



Sample No: VCP415381
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1024076 MGC



SAMPLE INFORMATION

Sample Number	VCP415381	VCP368137	VCP351257	VCP274618
Sample Date	15 Sep 2023	21 Dec 2022	28 Feb 2022	09 Mar 2021
Machine Hours	4853	4349	3780	3180
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904

OIL CONDITION

Visc @ 100°C	cSt	14.1	13.8	13.1	13.1
Base Number (BN)	mg KOH/g	9.2	10.5	9.5	---
Oxidation (PA)	%	65	84	82	89

CONTAMINATION

Soot %	%	0.5	0.5	0.5	0.7
Nitration (PA)	%	65	68	70	78
Sulfation (PA)	%	55	62	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	7	6	5
Sodium	ppm	2	2	2	5
Potassium	ppm	2	1	0	0

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.

WEAR METALS

Iron	ppm	12	12	15	18
Copper	ppm	<1	1	1	2
Lead	ppm	0	1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	4	10	13	17
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	62	43	40	41
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1380	1892	1710	1828
Magnesium	ppm	1006	574	534	528
Zinc	ppm	1339	1325	1151	1084
Phosphorus	ppm	1079	1029	983	954
Barium	ppm	0	0	0	0
Boron	ppm	8	39	33	34

Depot: VOLVO6174
Unique No: 10658577
Signed: Wes Davis
Report Date: 22 Sep 2023

VOLVO GRAPHS

