



CONSTRUCTION EQUIPMENT

SW-22498-2 VOLVO L70H 622855 - DIESEL ENGINE



Sample No: VCP406963
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-22498-2



SAMPLE INFORMATION

Sample Number	VCP406963	VCP406314	VCP383488	VCP363177
Sample Date	10 Aug 2023	24 May 2023	06 Jan 2023	06 Jun 2022
Machine Hours	4609	4082	3488	3063
Oil Hours	600	500	480	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
 SALT LAKE CITY, UT
 US 84119
 Contact: TJ LARK
 tlark@arnoldmachinery.com
 T: (801)972-4000
 F: (801)975-9434

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	13.4	13.6
Base Number (BN)	mg KOH/g	9.8	9.3	10.5	10.9
Oxidation (PA)	%	60	61	62	84

CONTAMINATION

Soot %	%	0.3	0.5	0.4	0.5
Nitration (PA)	%	57	66	63	69
Sulfation (PA)	%	54	54	54	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	8
Sodium	ppm	2	<1	0	3
Potassium	ppm	1	2	<1	0

WEAR METALS

Iron	ppm	10	16	13	16
Copper	ppm	1	1	<1	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	3	7	7	12
Chromium	ppm	1	2	1	2
Molybdenum	ppm	64	63	53	40
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1171	951	1299	1727
Magnesium	ppm	1029	850	847	518
Zinc	ppm	1317	1025	1242	1108
Phosphorus	ppm	1066	859	966	961
Barium	ppm	0	5	0	0
Boron	ppm	2	11	14	77

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: VOLVO8770
Unique No: 10608033
Signed: Sean Felton
Report Date: 21 Aug 2023



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GRAPHS

