



CONSTRUCTION EQUIPMENT

SW-29075-2 LKQ VOLVO L60F 61423 - DIESEL ENGINE



Sample No: VCP435863
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-29075-2 LKQ



SAMPLE INFORMATION

Sample Number	VCP435863	VCP419281	VCP397993	VCP354241
Sample Date	31 Jan 2024	20 Jun 2023	20 Feb 2023	05 May 2022
Machine Hours	16176	10075	9535	9052
Oil Hours	480	500	480	800
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: TONY PAYAN
 tpayan@arnoldmachinery.com
 T: (801)972-4000
 F: (801)975-9434



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	13.2	13.2
Base Number (BN)	mg KOH/g	9.5	10.2	11.1	10.9
Oxidation (PA)	%	56	61	78	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.3	0.3	0.3
Nitration (PA)	%	50	53	52	63
Sulfation (PA)	%	53	54	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	7	8
Sodium	ppm	0	<1	1	3
Potassium	ppm	1	<1	2	<1



WEAR METALS

Iron	ppm	13	7	10	8
Copper	ppm	1	<1	1	<1
Lead	ppm	2	0	<1	1
Tin	ppm	1	0	<1	<1
Aluminum	ppm	3	<1	3	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	76	61	38	39
Nickel	ppm	1	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1264	1171	1661	1772
Magnesium	ppm	1312	913	456	561
Zinc	ppm	1582	1229	1049	951
Phosphorus	ppm	1265	993	863	822
Barium	ppm	0	0	0	0
Boron	ppm	7	21	60	62

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: 10869629
Signed: Jonathan Hester
Report Date: 09 Feb 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

