



CONSTRUCTION EQUIPMENT

SPM540035 THOMPSON CK POWER 600KW 2016076758 - DIESEL ENGINE



Sample No: VCP400768
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM540035 THOMPSON



SAMPLE INFORMATION

Sample Number	VCP400768	VCP356719	VCP259277	VCP254967
Sample Date	21 Apr 2023	11 May 2022	27 Sep 2019	06 Aug 2019
Machine Hours	17904	15459	10856	10209
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA CONSTRUCTION EQUIPMENT LLC
 G-3283 S. DORT HIGHWAY
 BURTON, MI
 US 48529
 Contact: BURTON SERVICE
 BURTON.SERVICE@ALTAEQUIPMENT.COM
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	14.8	13.6	12.8	12.9
Base Number (BN)	mg KOH/g	7.3	7.1	---	---
Oxidation (PA)	%	69	80	82	83

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 %	%	0.4	0.1	0.2	0.3
Nitration (PA)	%	77	74	59	62
Sulfation (PA)	%	52	64	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	1	2	3	3
Potassium	ppm	0	4	4	<1



WEAR METALS

Iron	ppm	59	10	7	14
Copper	ppm	<1	2	1	3
Lead	ppm	0	2	0	1
Tin	ppm	<1	1	0	<1
Aluminum	ppm	4	2	2	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	52	26	43	41
Nickel	ppm	0	<1	<1	2
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	981	2196	1716	1608
Magnesium	ppm	811	185	534	492
Zinc	ppm	1028	1176	866	805
Phosphorus	ppm	830	985	698	680
Barium	ppm	0	0	0	0
Boron	ppm	6	110	30	30

Depot: VOLVO5023
Unique No: 10454989
Signed: Sean Felton
Report Date: 04 May 2023



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GRAPHS

