



CONSTRUCTION EQUIPMENT

SPM621536 MICH SUGAR VOLVO L180H 4058 - DIESEL ENGINE



Sample No: VCP431287
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM621536 MICH SUGAR



SAMPLE INFORMATION

Sample Number	VCP431287	VCP410679	VCP400251	VCP369047
Sample Date	30 Oct 2023	28 Mar 2023	28 Feb 2023	03 Feb 2023
Machine Hours	37107	35517	34905	34382
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	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	13.2	14.0	14.3	14.4
Base Number (BN)	mg KOH/g	9.7	9.3	9.5	9.6
Oxidation (PA)	%	60	53	54	55

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	48	48	48
Sulfation (PA)	%	53	50	50	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	2	5	2
Sodium	ppm	0	<1	0	<1
Potassium	ppm	1	0	2	2



WEAR METALS

Iron	ppm	3	<1	2	3
Copper	ppm	2	0	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	1	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	60	56	55	59
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1050	985	1010	1089
Magnesium	ppm	917	865	875	908
Zinc	ppm	1205	1140	1141	1237
Phosphorus	ppm	1088	947	958	1020
Barium	ppm	5	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO5023
Unique No: 10728567
Signed: Sean Felton
Report Date: 08 Nov 2023



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GRAPHS

