



CONSTRUCTION EQUIPMENT

SPM703646 ALPINE DEM VOLVO EC480EHR 691030 - DIESEL ENGINE



Sample No: VCP438289
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM703646 ALPINE DEM



SAMPLE INFORMATION

Sample Number	VCP438289	VCP440609	VCP355045	VCP338598
Sample Date	06 May 2024	15 Nov 2023	21 Jul 2022	03 Feb 2022
Machine Hours	3348	2564	972	552
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 100°C	cSt	11.6	11.9	12.2	11.1
Base Number (BN)	mg KOH/g	8.0	7.4	8.0	7.2
Oxidation (PA)	%	63	68	69	76

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	66	72	78	75
Sulfation (PA)	%	55	56	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.7
Silicon	ppm	4	6	6	23
Sodium	ppm	1	<1	4	2
Potassium	ppm	<1	1	0	3



WEAR METALS

Iron	ppm	4	6	7	13
Copper	ppm	<1	4	273	269
Lead	ppm	0	<1	4	1
Tin	ppm	0	<1	3	3
Aluminum	ppm	1	1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	54	60	57	55
Nickel	ppm	0	<1	1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1019	1060	1204	1761
Magnesium	ppm	933	840	916	442
Zinc	ppm	1277	1187	1222	1166
Phosphorus	ppm	1088	889	1004	1031
Barium	ppm	0	11	0	0
Boron	ppm	1	0	11	71

Depot: VOLVO8885
Unique No: 11084080
Signed: Sean Felton
Report Date: 19 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

