



CONSTRUCTION EQUIPMENT

SPM635021 VOLVO EC160E 314043 - DIESEL ENGINE



Sample No: VCP435671
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM635021



SAMPLE INFORMATION

Sample Number	VCP435671	VCP415264	VCP422730	VCP404362
Sample Date	29 Nov 2023	28 Aug 2023	26 Apr 2023	10 Jan 2023
Machine Hours	6019	5634	5136	4632
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CALUMET CITY AUTO WRECKERS
 630 E STATE ST
 CALUMET CITY, IL
 US 60409
 Contact: GARY



OIL CONDITION

Visc @ 100°C	cSt	13.7	14.3	13.7	13.9
Base Number (BN)	mg KOH/g	9.2	9.3	8.7	9.6
Oxidation (PA)	%	60	60	59	58

T: (815)600-9027
 F:

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	56	61	58	59
Sulfation (PA)	%	52	52	47	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	3
Sodium	ppm	0	2	<1	0
Potassium	ppm	0	<1	1	0



WEAR METALS

Iron	ppm	3	8	5	2
Copper	ppm	2	3	3	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	1	2	<1
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	54	63	60	57
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1053	1132	1178	1009
Magnesium	ppm	933	1056	1028	899
Zinc	ppm	1273	1360	1402	1147
Phosphorus	ppm	990	1091	1100	962
Barium	ppm	0	0	0	0
Boron	ppm	7	<1	4	0

Depot: CALCALIL
Unique No: 10792852
Signed: Wes Davis
Report Date: 19 Dec 2023



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GRAPHS

