



CONSTRUCTION EQUIPMENT

SWO-067138 EPIROC TMG21 SED0492 - DIESEL ENGINE



Sample No: VCP428910
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-067138



SAMPLE INFORMATION

Sample Number	VCP428910	VCP431663	VCP415573	VCP424279
Sample Date	31 Oct 2023	08 Oct 2023	23 Aug 2023	03 Jul 2023
Machine Hours	4296	4048	3744	3460
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.0	12.9
Base Number (BN)	mg KOH/g	9.2	7.7	9.1	9.8
Oxidation (PA)	%	82	77	83	85

CONTAMINATION

Soot %	%	0.3	0.4	0.3	0.3
Nitration (PA)	%	69	76	69	73
Sulfation (PA)	%	60	57	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	13	13	10
Sodium	ppm	0	2	3	2
Potassium	ppm	2	<1	4	0

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.

WEAR METALS

Iron	ppm	9	12	12	12
Copper	ppm	3	4	3	3
Lead	ppm	<1	<1	2	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	45	40	37
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1590	1442	1747	1665
Magnesium	ppm	554	638	508	465
Zinc	ppm	1105	1110	1103	1027
Phosphorus	ppm	896	913	879	844
Barium	ppm	0	0	0	0
Boron	ppm	27	12	21	19

Depot: SAIBIR
Unique No: 10724891
Signed: Sean Felton
Report Date: 03 Nov 2023



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GRAPHS

