



CONSTRUCTION EQUIPMENT

SWO-067518 EPIROC TMG21 SEDO165 - DIESEL ENGINE



Sample No: VCP428890
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-067518



SAMPLE INFORMATION

Sample Number	VCP428890	VCP432933	VCP411894	VCP407501
Sample Date	14 Nov 2023	04 Oct 2023	09 Aug 2023	13 Jun 2023
Machine Hours	4407	4102	3817	3489
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	13.2	13.7	13.0	13.1
Base Number (BN)	mg KOH/g	9.5	8.5	9.9	9.3
Oxidation (PA)	%	80	67	84	86

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	54	55	58	56
Sulfation (PA)	%	60	53	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	4
Sodium	ppm	0	2	0	<1
Potassium	ppm	2	0	<1	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	4	2	5	4
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	<1	2	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	44	49	40	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1499	1225	1650	1602
Magnesium	ppm	546	773	473	501
Zinc	ppm	1065	1154	1073	1061
Phosphorus	ppm	908	949	888	875
Barium	ppm	0	0	2	0
Boron	ppm	39	13	37	52

Depot: SAIBIR
Unique No: 10750528
Signed: Sean Felton
Report Date: 21 Nov 2023



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VOLVO GRAPHS

