



CONSTRUCTION EQUIPMENT

SWO-072944 EPIROC TMG2 ISEDO 165 - DIESEL ENGINE



Sample No: VCP451360
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-072944



SAMPLE INFORMATION

Sample Number	VCP451360	VCP452722	VCP438682	VCP444435
Sample Date	19 Jun 2024	01 May 2024	28 Mar 2024	13 Feb 2024
Machine Hours	5887	5608	5235	4946
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	13.5	13.0
Base Number (BN)	mg KOH/g	9.8	9.9	9.2	9.8
Oxidation (PA)	%	82	81	78	84

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	57	58	63	55
Sulfation (PA)	%	61	61	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	1	4	2	2
Potassium	ppm	1	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	<1	3	3	3
Copper	ppm	<1	5	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	<1	2	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	38	39	31	40
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1674	1759	1602	1543
Magnesium	ppm	496	467	570	477
Zinc	ppm	1160	984	1051	1066
Phosphorus	ppm	878	883	888	880
Barium	ppm	0	<1	0	0
Boron	ppm	33	53	53	50

Depot: SAIBIR
Unique No: 11098959
Signed: Jonathan Hester
Report Date: 27 Jun 2024



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GRAPHS

