



CONSTRUCTION EQUIPMENT

E15080 U713293E - DIESEL ENGINE



Sample No: VCP383337
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: E15080



SAMPLE INFORMATION

Sample Number	VCP383337	VCP378409	VCP322564	VCP284431
Sample Date	06 Oct 2023	25 Aug 2022	20 Dec 2021	02 Sep 2020
Machine Hours	15	123	101	65
Oil Hours	0	0	36	65
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.8	14.5	13.7
Base Number (BN)	mg KOH/g	10.6	11.3	9.4	---
Oxidation (PA)	%	87	82	61	92

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	61	58	66	64
Sulfation (PA)	%	62	64	55	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	6
Sodium	ppm	8	3	4	3
Potassium	ppm	17	4	4	1



WEAR METALS

Iron	ppm	6	5	8	9
Copper	ppm	2	1	1	2
Lead	ppm	2	<1	<1	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	31	7	46
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1783	1541	1378	1730
Magnesium	ppm	571	519	729	546
Zinc	ppm	1201	1053	816	954
Phosphorus	ppm	976	857	729	715
Barium	ppm	0	0	0	0
Boron	ppm	42	79	96	65

Depot: MCCEASVC
Unique No: 10708801
Signed: Wes Davis
Report Date: 24 Oct 2023



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GRAPHS

