



CONSTRUCTION EQUIPMENT

PETERSON 6710D 32D-29-2116 - DIESEL ENGINE



Sample No: VCP446514
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446514	VCP441426	VCP363300	VCP392941
Sample Date	19 Apr 2024	11 Jan 2024	06 Sep 2023	07 Jan 2023
Machine Hours	2697	2241	1856	986
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	12.8	12.8	12.9	12.7
Base Number (BN)	mg KOH/g	8.9	8.6	7.8	6.4
Oxidation (PA)	%	92	90	78	98

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 %	%	0.3	0.2	0.4	0.6
Nitration (PA)	%	87	84	89	106
Sulfation (PA)	%	65	63	61	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	23	8	14
Sodium	ppm	2	<1	3	3
Potassium	ppm	10	5	5	3



WEAR METALS

Iron	ppm	43	29	56	132
Copper	ppm	<1	6	10	46
Lead	ppm	2	2	3	12
Tin	ppm	1	1	2	4
Aluminum	ppm	6	4	4	4
Chromium	ppm	1	2	2	4
Molybdenum	ppm	48	50	59	56
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	2
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1736	1634	1946	1693
Magnesium	ppm	532	528	594	655
Zinc	ppm	1172	1184	1374	1212
Phosphorus	ppm	996	942	1076	915
Barium	ppm	0	0	0	0
Boron	ppm	29	11	7	6

Depot: VOLVO0090
Unique No: 10992777
Signed: Wes Davis
Report Date: 24 Apr 2024



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GRAPHS

