



CONSTRUCTION EQUIPMENT

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



Sample No: VCP441426
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441426	VCP363300	VCP392941	---
Sample Date	11 Jan 2024	06 Sep 2023	07 Jan 2023	---
Machine Hours	2241	1856	986	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	12.7	---
Base Number (BN)	mg KOH/g	8.6	7.8	6.4	---
Oxidation (PA)	%	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	---
Soot %	%	0.2	0.4	0.6	---
Nitration (PA)	%	84	89	106	---
Sulfation (PA)	%	63	61	69	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	23	8	14	---
Sodium	ppm	<1	3	3	---
Potassium	ppm	5	5	3	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	1634	1946	1693	---
Magnesium	ppm	528	594	655	---
Zinc	ppm	1184	1374	1212	---
Phosphorus	ppm	942	1076	915	---
Barium	ppm	0	0	0	---
Boron	ppm	11	7	6	---

Depot: VOLVO0090
Unique No: 10830435
Signed: Wes Davis
Report Date: 12 Jan 2024



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GRAPHS

