



CONSTRUCTION EQUIPMENT

SPM565378 PALUMBO CATERPILLAR D6N PBA02687 - DIESEL ENGINE



Sample No: VCP422181
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM565378 PALUMBO



SAMPLE INFORMATION

Sample Number	VCP422181	VCP358943	VCP278938	---
Sample Date	07 Jun 2023	28 Feb 2022	11 Aug 2020	---
Machine Hours	2945	2469	2016	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 100°C	cSt	14.3	11.9	14.8	---
Base Number (BN)	mg KOH/g	8.0	10.6	---	---
Oxidation (PA)	%	76	93	72	---

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

Soot %	%	0.8	0.5	0.7	---
Nitration (PA)	%	98	81	88	---
Sulfation (PA)	%	59	69	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.0	<1.0	---
Silicon	ppm	8	6	7	---
Sodium	ppm	8	2	4	---
Potassium	ppm	1	0	3	---



WEAR METALS

Iron	ppm	54	25	102	---
Copper	ppm	2	1	9	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	19	11	79	---
Chromium	ppm	2	1	5	---
Molybdenum	ppm	59	39	4	---
Nickel	ppm	0	0	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1229	1639	1325	---
Magnesium	ppm	997	555	697	---
Zinc	ppm	1321	1076	1151	---
Phosphorus	ppm	1095	932	995	---
Barium	ppm	0	0	<1	---
Boron	ppm	7	34	40	---

Depot: VOLVO8885
Unique No: 10573980
Signed: Wes Davis
Report Date: 27 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

