

OIL ANALYSIS REPORT



JEFF CLARK CATERPILLAR 1ZJ03977 - DIESEL ENGINE

Sample No: VPA050774
Oil Type: SHELL ROTELLA T 30

SAMPLE INFORMATION

Sample Number	VPA050774	VPA047522	---	---
Sample Date	11 Dec 2023	07 Dec 2022	---	---
Machine Hours	581	540	---	---
Oil Hours	40	49	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 PINE BEACH, NJ
 US 08741
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OIL CONDITION

Visc @ 100°C	cSt	11.1	11.5	---	---
Base Number (BN)	mg KOH/g	8.6	9.9	---	---
Oxidation (PA)	%	28	32	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	36	40	---	---
Sulfation (PA)	%	38	42	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	4	---	---
Sodium	ppm	4	13	---	---
Potassium	ppm	0	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 acceptable for the time in service.

WEAR METALS

Iron	ppm	33	26	---	---
Copper	ppm	11	9	---	---
Lead	ppm	0	2	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	117	120	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	2705	2879	---	---
Magnesium	ppm	17	26	---	---
Zinc	ppm	1237	1273	---	---
Phosphorus	ppm	1057	1159	---	---
Barium	ppm	0	0	---	---
Boron	ppm	4	6	---	---

Depot: VPSHOPIN
Unique No: 10792810
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

