



CONSTRUCTION EQUIPMENT

363 JOHN DEERE 814432 - DIESEL ENGINE



Sample No: VCP397836
Oil Type: SHELL ROTELLA T 15W40
Job No: 363



SAMPLE INFORMATION

Sample Number	VCP397836	VCP310966	---	---
Sample Date	10 May 2024	05 Apr 2021	---	---
Machine Hours	6701	1507	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	---	---
Base Number (BN)	mg KOH/g	6.3	---	---	---
Oxidation (PA)	%	61	82	---	---

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	---	---
Soot %	%	0.4	0.6	---	---
Nitration (PA)	%	70	88	---	---
Sulfation (PA)	%	56	72	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	20	8	---	---
Sodium	ppm	10	5	---	---
Potassium	ppm	7	8	---	---



WEAR METALS

Iron	ppm	31	59	---	---
Copper	ppm	4	54	---	---
Lead	ppm	0	2	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	33	67	---	---
Nickel	ppm	2	18	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1998	2193	---	---
Magnesium	ppm	173	232	---	---
Zinc	ppm	1126	1129	---	---
Phosphorus	ppm	926	880	---	---
Barium	ppm	0	0	---	---
Boron	ppm	65	45	---	---

Depot: TOTGAI
Unique No: 11058635
Signed: Don Baldrige
Report Date: 03 Jun 2024



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GRAPHS

