



# CONSTRUCTION EQUIPMENT

## 14062 JOHN DEERE 644K 65926 - DIESEL ENGINE



Sample No: VCP414786

Oil Type: SHELL 15W40

Job No: 14062



### SAMPLE INFORMATION

Sample Number	<b>VCP414786</b>	VCP405062	VCP363671	VCP358924
Sample Date	<b>04 Jan 2024</b>	17 Apr 2023	04 Nov 2022	26 Aug 2022
Machine Hours	<b>14947</b>	14098	13594	13345
Oil Hours	<b>500</b>	550	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	SEVERE

**ALLIED CONCRETE**  
 3900 SHANNON ST  
 CHESAPEAKE, VA  
 US 23324  
 Contact:



### OIL CONDITION

Visc @ 100°C	cSt	<b>14.6</b>	14.1	14.2	13.4
Base Number (BN)	mg KOH/g	<b>7.0</b>	6.8	8.1	14.8
Oxidation (PA)	%	<b>65</b>	59	46	73

T:  
F:

### 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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.6</b>	0.5	0.5	0.5
Nitration (PA)	%	<b>73</b>	68	68	115
Sulfation (PA)	%	<b>57</b>	56	52	69
Glycol	%	<b>NEG</b>	NEG	NEG	0.10
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	9	109
Sodium	ppm	<b>13</b>	32	148	2154
Potassium	ppm	<b>3</b>	6	7	99



### WEAR METALS

Iron	ppm	<b>11</b>	14	13	67
Copper	ppm	<b>2</b>	7	5	55
Lead	ppm	<b>&lt;1</b>	0	2	16
Tin	ppm	<b>0</b>	0	<1	2
Aluminum	ppm	<b>2</b>	<1	4	40
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>54</b>	34	12	84
Nickel	ppm	<b>0</b>	0	<1	2
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1997</b>	2397	2152	1183
Magnesium	ppm	<b>199</b>	42	130	662
Zinc	ppm	<b>1201</b>	1262	1074	931
Phosphorus	ppm	<b>1023</b>	1054	846	726
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>70</b>	92	8	50

**Depot:** ALLCHEVA  
**Unique No:** 10833693  
**Signed:** Wes Davis  
**Report Date:** 18 Jan 2024



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## GRAPHS

