

# OIL ANALYSIS REPORT



## MCCLOSKEY 92426 - VARIABLE SPEED - DIESEL ENGINE

**Sample No:** VPA054054  
**Oil Type:** DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

Sample Number	<b>VPA054054</b>	VPA049712	VPA040974	---
Sample Date	<b>10 Jun 2024</b>	02 Nov 2023	12 Jun 2023	---
Machine Hours	<b>1595</b>	784	418	---
Oil Hours	<b>400</b>	360	417	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>11.7</b>	14.1	11.3	---
Base Number (BN)	mg KOH/g	<b>6.7</b>	9.5	8.7	---
Oxidation (PA)	%	<b>58</b>	53	65	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>58</b>	45	56	---
Sulfation (PA)	%	<b>55</b>	50	56	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	3.7	---
Silicon	ppm	<b>30</b>	11	29	---
Sodium	ppm	<b>0</b>	2	2	---
Potassium	ppm	<b>2</b>	2	1	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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	<b>20</b>	8	14	---
Copper	ppm	<b>2</b>	4	8	---
Lead	ppm	<b>1</b>	<1	0	---
Tin	ppm	<b>2</b>	0	2	---
Aluminum	ppm	<b>2</b>	2	2	---
Chromium	ppm	<b>1</b>	<1	<1	---
Molybdenum	ppm	<b>51</b>	52	69	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>1659</b>	1132	1287	---
Magnesium	ppm	<b>328</b>	859	849	---
Zinc	ppm	<b>1049</b>	1075	1178	---
Phosphorus	ppm	<b>813</b>	837	945	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>137</b>	11	53	---

**Depot:** VP1121775  
**Unique No:** 11077101  
**Signed:** Don Baldrige  
**Report Date:** 17 Jun 2024

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## GRAPHS

