

OIL ANALYSIS REPORT



MCCLOSKEY 78995 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA054149
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA054149	VPA056247	VPA049706	---
Sample Date	19 Jun 2024	23 Jan 2024	19 Oct 2023	---
Machine Hours	987	0	466	---
Oil Hours	250	500	466	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.9	12.8	---
Base Number (BN)	mg KOH/g	8.8	9.8	8.3	---
Oxidation (PA)	%	56	63	57	---

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	NEG	---
Soot %	%	0.1	0	0.1	---
Nitration (PA)	%	52	40	53	---
Sulfation (PA)	%	57	63	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	9	---
Sodium	ppm	1	2	<1	---
Potassium	ppm	5	3	2	---

WEAR METALS

Iron	ppm	4	1	11	---
Copper	ppm	2	0	3	---
Lead	ppm	<1	<1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	5	4	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	93	112	61	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	1	<1	1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	2029	1387	1220	---
Magnesium	ppm	550	652	868	---
Zinc	ppm	1116	786	1285	---
Phosphorus	ppm	1019	681	1020	---
Barium	ppm	1	<1	0	---
Boron	ppm	265	370	54	---

Depot: VP1121775
Unique No: 11097446
Signed: Don Baldrige
Report Date: 26 Jun 2024

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GRAPHS

