

OIL ANALYSIS REPORT



WILLY LIPPMANN 91869 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056248
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA056248	VPA040136	---	---
Sample Date	12 Jan 2024	29 Mar 2023	---	---
Machine Hours	2381	1925	---	---
Oil Hours	200	1900	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.2	---	---
Base Number (BN)	mg KOH/g	8.3	8.0	---	---
Oxidation (PA)	%	58	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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.1	---	---
Nitration (PA)	%	45	41	---	---
Sulfation (PA)	%	58	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	15	14	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	<1	<1	---	---

WEAR METALS

Iron	ppm	5	4	---	---
Copper	ppm	10	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	80	92	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1365	1445	---	---
Magnesium	ppm	400	467	---	---
Zinc	ppm	1238	1236	---	---
Phosphorus	ppm	1045	1036	---	---
Barium	ppm	0	0	---	---
Boron	ppm	390	491	---	---

Depot: VP1121775
Unique No: 10833684
Signed: Sean Felton
Report Date: 18 Jan 2024

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GRAPHS

