

OIL ANALYSIS REPORT



WILLY MCCLOSKEY 91373 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056263
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA056263	VPA257505	VPA257946	---
Sample Date	04 Jan 2024	13 Apr 2022	23 Feb 2021	---
Machine Hours	2818	1611	256	---
Oil Hours	33	400	256	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	SEVERE	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	32.9	12.0	---
Base Number (BN)	mg KOH/g	8.4	7.5	---	---
Oxidation (PA)	%	52	58	64	---

CONTAMINATION

Water	%	NEG	1.20	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	51	99	58	---
Sulfation (PA)	%	50	55	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.3	---
Silicon	ppm	6	7	22	---
Sodium	ppm	1	3	3	---
Potassium	ppm	2	6	1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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.

WEAR METALS

Iron	ppm	5	20	14	---
Copper	ppm	8	28	11	---
Lead	ppm	<1	2	2	---
Tin	ppm	<1	2	0	---
Aluminum	ppm	2	2	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	44	4	57	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	<1	0	1	---

ADDITIVES

Calcium	ppm	1310	2322	1189	---
Magnesium	ppm	726	56	1039	---
Zinc	ppm	1173	1139	1215	---
Phosphorus	ppm	990	904	1025	---
Barium	ppm	0	0	<1	---
Boron	ppm	10	16	5	---

Depot: VP1121775
Unique No: 10822425
Signed: Don Baldrige
Report Date: 11 Jan 2024

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GRAPHS

