

OIL ANALYSIS REPORT



WILLY MCCLOSKEY 89640 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056249
Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA056249	VPA040776	VPA040121	VPA258106
Sample Date	10 Jan 2024	21 Jul 2023	01 Sep 2022	28 May 2021
Machine Hours	2594	2452	1596	1192
Oil Hours	130	500	300	100
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	11.9	12.9	13.0
Base Number (BN)	mg KOH/g	9.5	6.1	7.5	---
Oxidation (PA)	%	53	51	43	49

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	43	59	63	61
Sulfation (PA)	%	49	54	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.7	<1.0	<1.0
Silicon	ppm	5	6	4	5
Sodium	ppm	<1	2	<1	<1
Potassium	ppm	<1	<1	<1	2

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.

WEAR METALS

Iron	ppm	4	12	7	5
Copper	ppm	1	5	10	34
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	56	42	7	19
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	2
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1

ADDITIVES

Calcium	ppm	1144	1897	2054	1978
Magnesium	ppm	880	413	71	133
Zinc	ppm	1207	1203	1012	1008
Phosphorus	ppm	1031	976	796	860
Barium	ppm	0	0	0	0
Boron	ppm	23	125	9	39

Depot: VP1121775
Unique No: 10833685
Signed: Sean Felton
Report Date: 18 Jan 2024

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VOLVO PENTA

GRAPHS

