

# OIL ANALYSIS REPORT

# VOLVO PENTA

## FLOOD MCCLOSKEY 91098 - GENSET

Sample No: VPA051807

Oil Type: DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

Sample Number	VPA051807	VPA040772	VPA040750	VPA258105
Sample Date	21 Aug 2023	10 Aug 2023	17 Feb 2023	04 Jun 2021
Machine Hours	1950	1949	1843	512
Oil Hours	120	50	500	500
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### MCCOURT & SONS EQUIPMENT INC

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LA GRANGE, TX  
US 78945  
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### OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	11.5	11.7
Base Number (BN)	mg KOH/g	6.9	6.9	5.2	---
Oxidation (PA)	%	83	80	62	81

### CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	48	50	63	63
Sulfation (PA)	%	58	59	60	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	8	44
Sodium	ppm	<1	2	<1	3
Potassium	ppm	2	2	2	4

### WEAR METALS

Iron	ppm	6	6	11	18
Copper	ppm	1	<1	3	5
Lead	ppm	<1	<1	1	<1
Tin	ppm	<1	1	2	2
Aluminum	ppm	0	2	2	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	37	3	96
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	<1

### ADDITIVES

Calcium	ppm	1429	1435	2228	1430
Magnesium	ppm	660	682	38	719
Zinc	ppm	1146	1193	991	919
Phosphorus	ppm	965	970	824	762
Barium	ppm	2	0	2	<1
Boron	ppm	11	11	1	338

### 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.

Depot: VP1121775  
Unique No: 10618332  
Signed: Sean Felton  
Report Date: 25 Aug 2023

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## GRAPHS

