

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MCCLOSKEY 89640 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA040776

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA040776	VPA040121	VPA258106	VPA024555
Sample Date	21 Jul 2023	01 Sep 2022	28 May 2021	05 Aug 2019
Machine Hours	2452	1596	1192	1092
Oil Hours	500	300	100	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MCCOURT & SONS EQUIPMENT INC

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.9	13.0	12.3
Base Number (BN)	mg KOH/g	6.1	7.5	---	---
Oxidation (PA)	%	51	43	49	63

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	59	63	61	73
Sulfation (PA)	%	54	52	51	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.7	<1.0	<1.0	<1.0
Silicon	ppm	6	4	5	10
Sodium	ppm	2	<1	<1	2
Potassium	ppm	<1	<1	2	4

WEAR METALS

Iron	ppm	12	7	5	8
Copper	ppm	5	10	34	130
Lead	ppm	0	<1	1	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	1	<1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	7	19	56
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	2	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1897	2054	1978	2023
Magnesium	ppm	413	71	133	81
Zinc	ppm	1203	1012	1008	1002
Phosphorus	ppm	976	796	860	894
Barium	ppm	0	0	0	0
Boron	ppm	125	9	39	50

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.

Depot: VP1121775

Unique No: 10573957

Signed: Don Baldrige

Report Date: 27 Jul 2023

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GRAPHS

