

OIL ANALYSIS REPORT



FLOOD MCCLOSKEY 90215 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA040771

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA040771	VPA040779	VPA040115	VPA257794
Sample Date	10 Aug 2023	21 Apr 2023	12 Sep 2022	22 Sep 2020
Machine Hours	2024	1785	1404	363
Oil Hours	0	200	121	200
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	SEVERE	NORMAL	ABNORMAL

MCCOURT & SONS EQUIPMENT INC

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 12.8	█ 13.2	▲ 11.7
Base Number (BN)	mg KOH/g	█ 9.0	█ 7.4	█ 8.6	---
Oxidation (PA)	%	█ 54	45	44	72

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.1	█ 0.1
Nitration (PA)	%	█ 53	58	55	58
Sulfation (PA)	%	█ 52	50	51	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	█ 1.1	▲ 5.1
Silicon	ppm	▲ 38	█ 227	█ 3	█ 47
Sodium	ppm	█ 2	█ 5	█ 3	█ 3
Potassium	ppm	█ 4	█ 15	█ 7	█ 6

WEAR METALS

Iron	ppm	█ 20	▲ 131	█ 4	█ 22
Copper	ppm	█ 7	█ 30	█ 14	█ 99
Lead	ppm	█ 1	█ <1	█ 2	█ 2
Tin	ppm	█ 1	█ 3	█ 1	█ 0
Aluminum	ppm	▲ 9	▲ 42	█ 0	█ 2
Chromium	ppm	█ 1	█ 8	█ <1	█ <1
Molybdenum	ppm	█ 51	█ 36	█ 25	█ 52
Nickel	ppm	█ <1	█ <1	█ <1	█ 0
Titanium	ppm	█ <1	█ 1	█ <1	█ 7
Silver	ppm	█ 0	█ 0	█ 2	█ 0
Manganese	ppm	█ <1	█ 3	█ <1	█ 4
Vanadium	ppm	█ 0	0	<1	0

ADDITIVES

Calcium	ppm	█ 1261	█ 2051	█ 1909	█ 1163
Magnesium	ppm	█ 864	█ 395	█ 154	█ 887
Zinc	ppm	█ 1258	█ 1149	█ 982	█ 1100
Phosphorus	ppm	█ 1018	█ 920	█ 777	█ 964
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 12	█ 24	█ 80	█ 9

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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: 10605771
Signed: Don Baldrige
Report Date: 17 Aug 2023

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VOLVO PENTA

GRAPHS

