

OIL ANALYSIS REPORT



MCCLOSKEY 91494 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056417
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA056417	VPA040753	VPA040752	VPA040117
Sample Date	05 Jan 2024	17 Feb 2023	07 Feb 2023	31 Aug 2022
Machine Hours	2460	2031	2030	1922
Oil Hours	400	50	50	600
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	■ 13.1	■ 13.3	12.1
Base Number (BN)	mg KOH/g	■ 6.4	■ 8.0	■ 7.6	■ 6.1
Oxidation (PA)	%	50	44	44	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.2
Nitration (PA)	%	60	52	51	73
Sulfation (PA)	%	50	48	48	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.4	<1.0	<1.0	■ 1.1
Silicon	ppm	■ 5	■ 4	■ 4	■ 6
Sodium	ppm	■ 1	■ 1	■ <1	■ 2
Potassium	ppm	■ <1	■ 2	■ 1	■ 2

Diagnosis

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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	■ 6	■ 4	■ 4	■ 10
Copper	ppm	■ 31	■ 20	■ 19	■ 54
Lead	ppm	■ 2	■ 1	■ 3	■ 3
Tin	ppm	■ 1	■ <1	■ 2	■ 3
Aluminum	ppm	■ <1	■ <1	■ 1	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 23	■ 23	■ 23	■ 6
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	■ 4	■ 4	4	■ 17
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	<1	<1
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

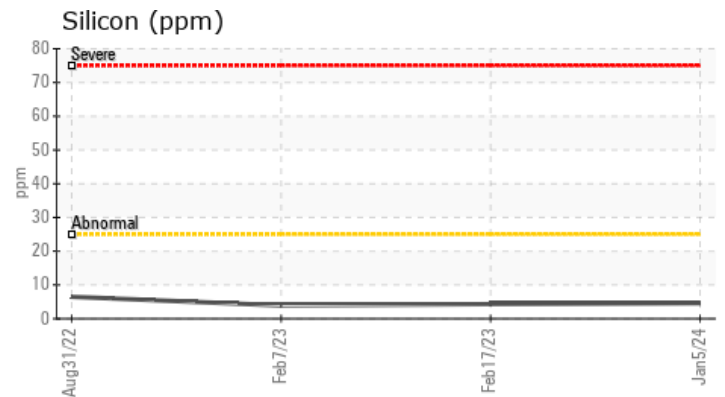
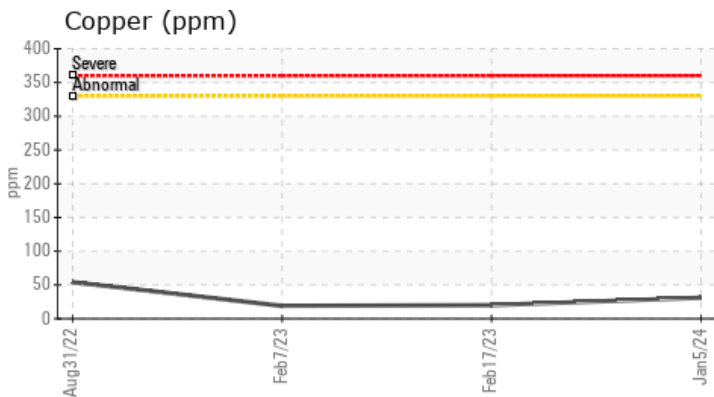
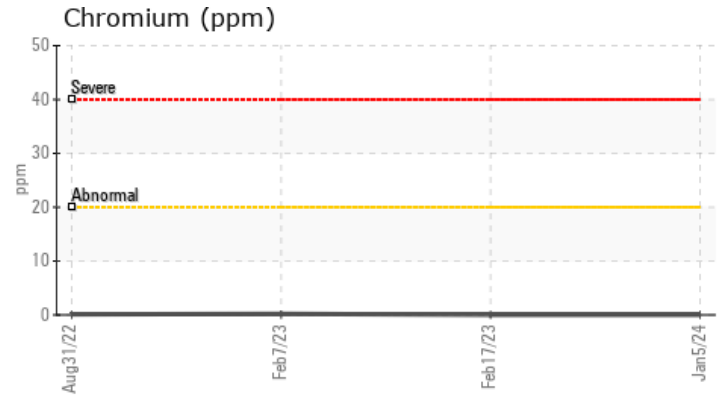
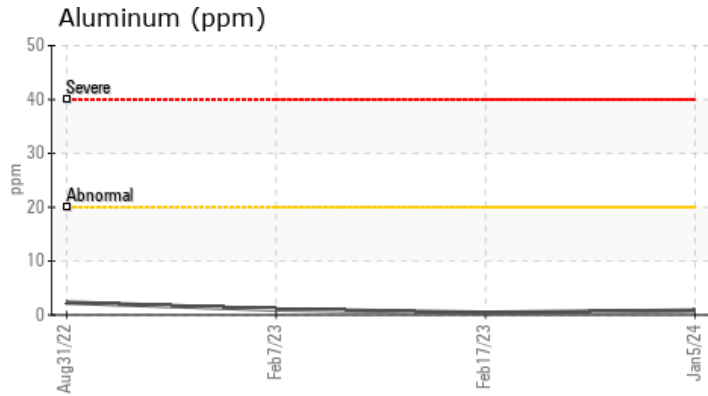
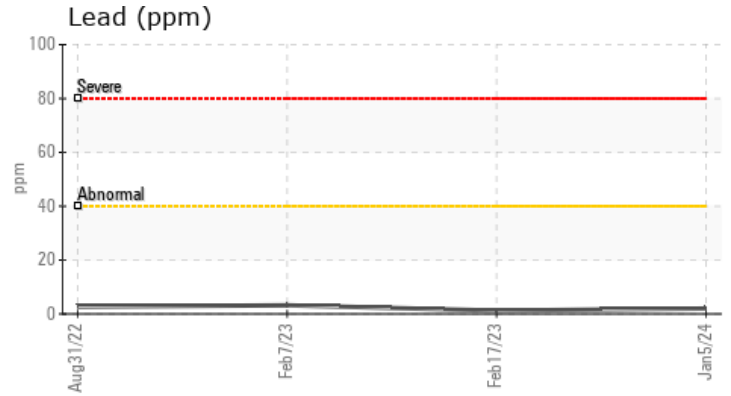
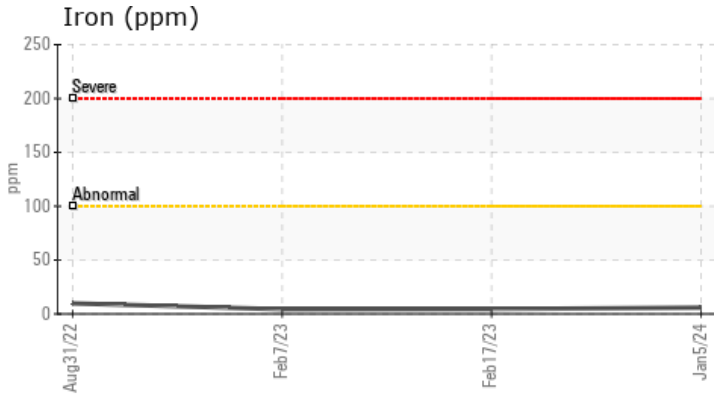
Calcium	ppm	■ 1732	■ 1759	■ 1780	■ 2082
Magnesium	ppm	■ 366	■ 332	■ 360	■ 146
Zinc	ppm	■ 1090	■ 1071	■ 1098	■ 1067
Phosphorus	ppm	■ 884	■ 889	■ 893	■ 823
Barium	ppm	■ 0	■ 2	■ 0	■ <1
Boron	ppm	■ 3	■ 4	■ 6	■ 11

Depot: VP1121775
Unique No: 10822426
Signed: Jonathan Hester
Report Date: 12 Jan 2024

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GRAPHS



▲ Viscosity @ 100°C

