



CONSTRUCTION EQUIPMENT

703206 FRITZ SENNEBOGEN 835C 2743 - DROP BOX



Sample No: VCP444519
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 703206 FRITZ



SAMPLE INFORMATION

Sample Number	VCP444519	VCP372308	VCP345967	VCP312796
Sample Date	30 Apr 2024	21 Apr 2022	16 Mar 2022	16 Dec 2021
Machine Hours	10751	6517	5888	4202
Oil Hours	1000	1000	1600	2202
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	MARGINAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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 F: (248)356-2029

OIL CONDITION

Visc @ 40°C	cSt	■ 141	■ 123	● 105	● 80.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 4	■ 4	■ 5	■ 2
Sodium	ppm	■ 4	■ 4	■ 10	■ 31
Potassium	ppm	■ <1	■ 1	■ 0	■ 2

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	■ 47	■ 48	■ 56	■ 58
Copper	ppm	▲ 65	▲ 87	▲ 143	▲ 121
Lead	ppm	■ 0	■ <1	■ 2	■ 0
Tin	ppm	■ 3	■ 3	■ 4	■ 4
Aluminum	ppm	■ <1	■ 2	■ 1	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 0	■ <1	■ 0	■ 0
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	1	<1	0
Manganese	ppm	■ 7	■ 4	■ 6	■ 6
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 173	■ 487	■ 885	■ 864
Magnesium	ppm	■ 0	■ 2	■ 2	■ 3
Zinc	ppm	■ 64	■ 203	■ 314	■ 346
Phosphorus	ppm	1920	■ 1889	■ 1752	■ 863
Barium	ppm	■ 0	■ 0	■ 0	■ 1
Boron	ppm	■ 147	■ 100	■ 116	■ 51

Depot: VOLVO2990
Unique No: 11008061
Signed: Don Baldrige
Report Date: 06 May 2024

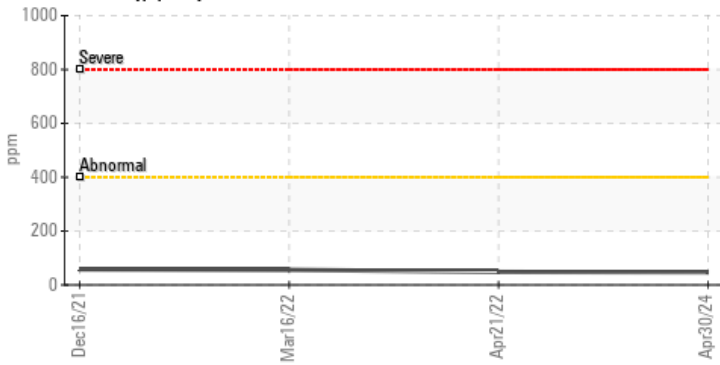


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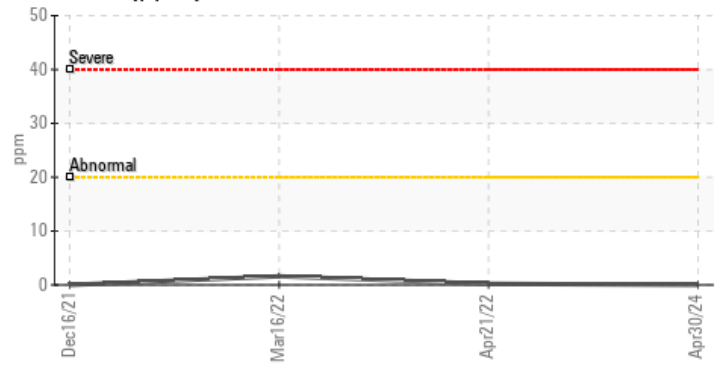


GRAPHS

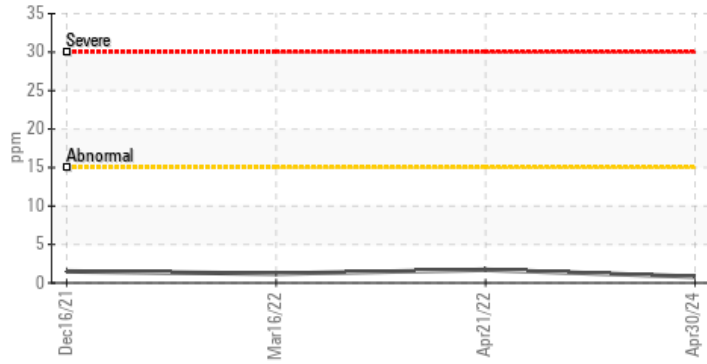
Iron (ppm)



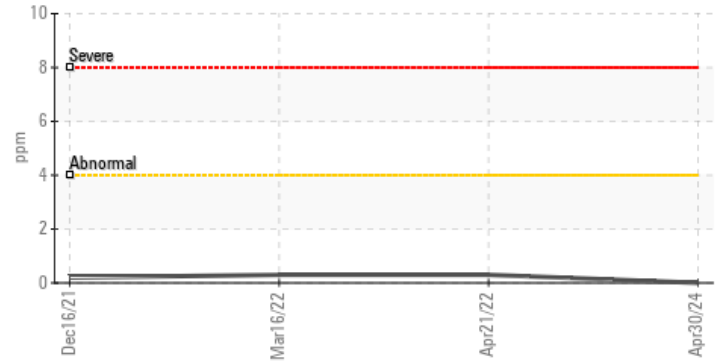
Lead (ppm)



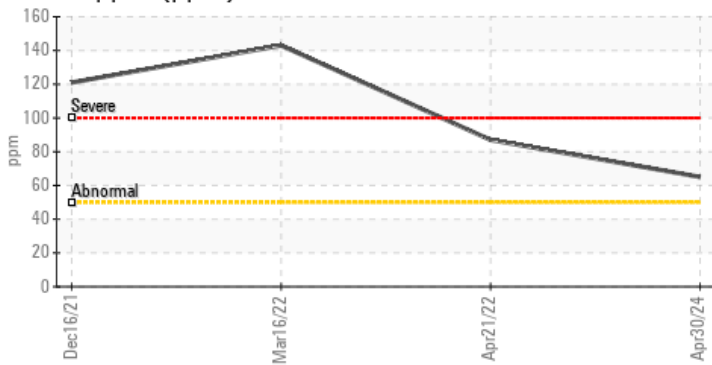
Aluminum (ppm)



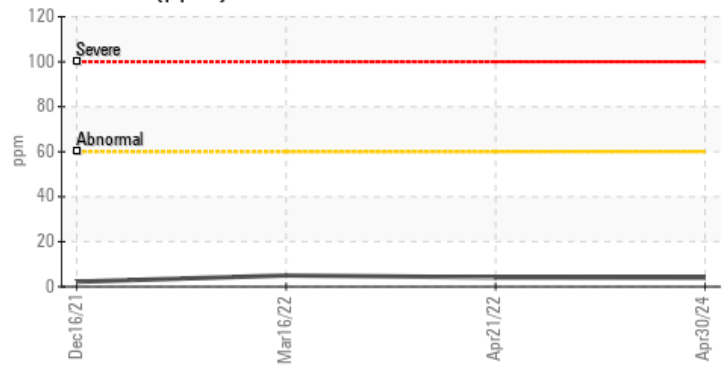
Chromium (ppm)



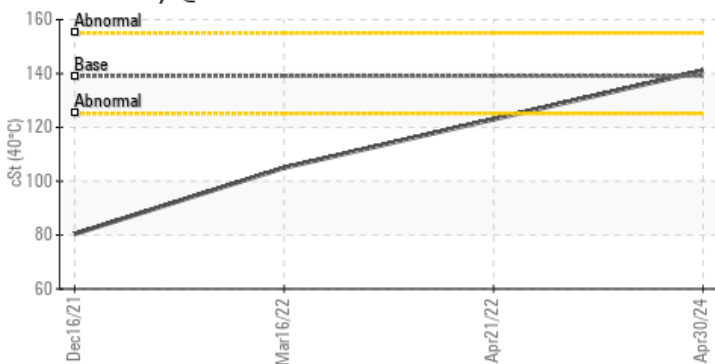
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

