



CONSTRUCTION EQUIPMENT

686747 DIPRO SENNEBOGAN 835 830.0.2853 - DIESEL ENGINE



Sample No: VCP453922
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 686747 DIPRO



SAMPLE INFORMATION

Sample Number	VCP453922	VCP452293	VCP412464	VCP424852
Sample Date	13 Mar 2024	20 Dec 2023	05 Aug 2023	29 Mar 2023
Machine Hours	5050	4628	4123	3387
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	12.4	11.9	12.1	11.0
Base Number (BN)	mg KOH/g	8.9	8.6	6.3	6.9
Oxidation (PA)	%	70	72	96	92

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	72	74	93	92
Sulfation (PA)	%	55	55	65	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.7	3.9	6.0	14.2
Silicon	ppm	5	2	3	2
Sodium	ppm	3	1	2	1
Potassium	ppm	3	2	4	2



WEAR METALS

Iron	ppm	12	7	15	17
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	<1	8	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	78	57	57	52
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1454	995	1041	956
Magnesium	ppm	1296	959	959	892
Zinc	ppm	1680	1248	1238	1159
Phosphorus	ppm	1350	1016	921	915
Barium	ppm	0	0	0	0
Boron	ppm	1	0	<1	<1

Depot: VOLVO2990
Unique No: 10937570
Signed: Wes Davis
Report Date: 22 Mar 2024

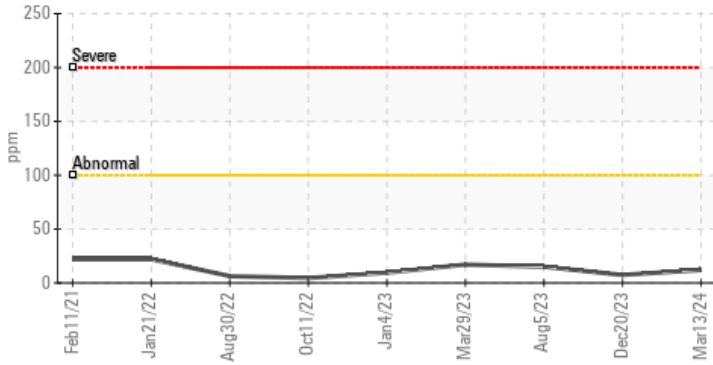


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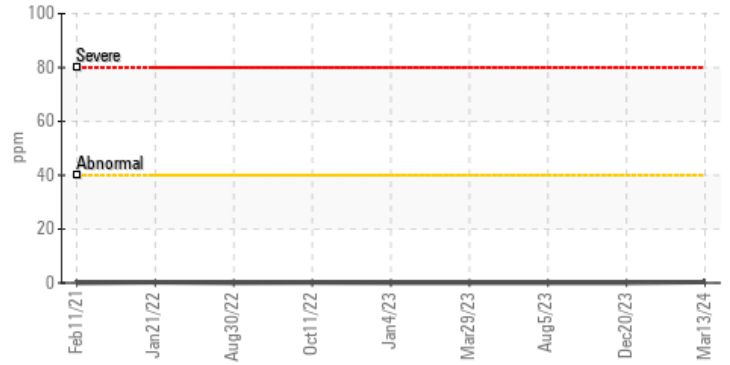


GRAPHS

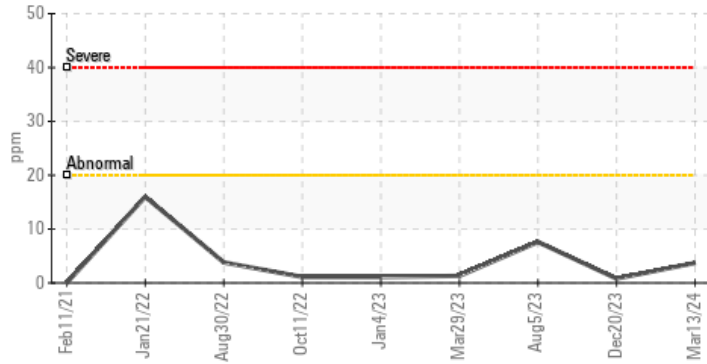
Iron (ppm)



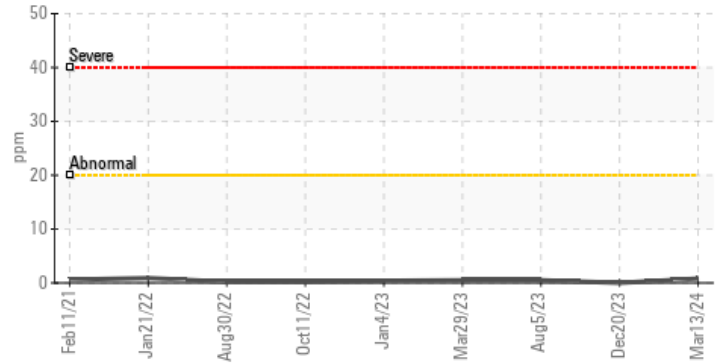
Lead (ppm)



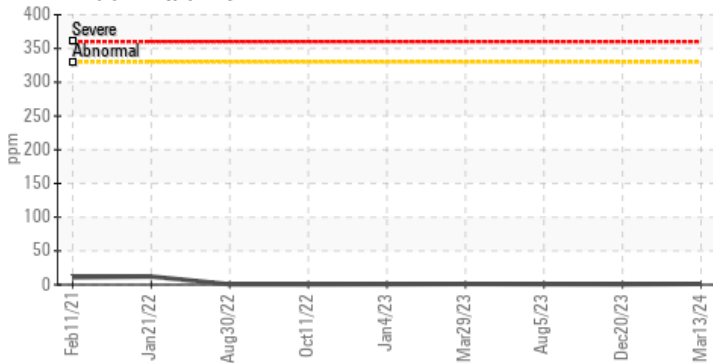
Aluminum (ppm)



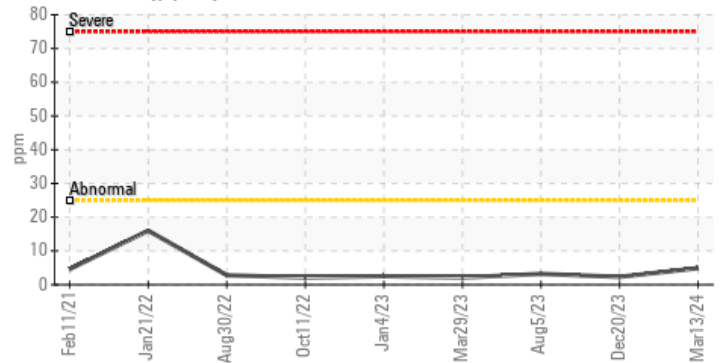
Chromium (ppm)



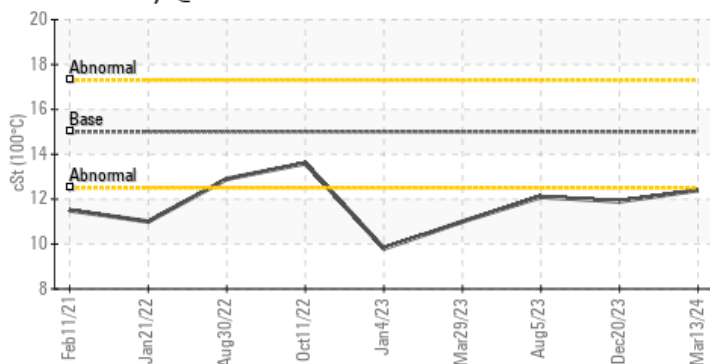
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

