



CONSTRUCTION EQUIPMENT

700877 DIPRO CATERPILLAR 982M 2686 - DIESEL ENGINE



Sample No: VCP446953
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700877 DIPRO



SAMPLE INFORMATION

Sample Number	VCP446953	VCP442418	VCP445990	VCP452300
Sample Date	18 Apr 2024	29 Feb 2024	14 Feb 2024	28 Dec 2023
Machine Hours	14054	16558	13510	12902
Oil Hours	500	500	510	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.8	13.5	13.3
Base Number (BN)	mg KOH/g	9.0	8.5	8.6	6.6
Oxidation (PA)	%	59	65	67	80

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.6	0.5	1.6
Nitration (PA)	%	65	83	73	97
Sulfation (PA)	%	53	57	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	11
Sodium	ppm	<1	4	2	3
Potassium	ppm	3	2	0	<1



WEAR METALS

Iron	ppm	12	18	16	32
Copper	ppm	1	2	<1	2
Lead	ppm	2	<1	1	8
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	5	6
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	60	54	59	70
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1094	1727	1102	1336
Magnesium	ppm	972	836	911	821
Zinc	ppm	1248	1373	1100	1293
Phosphorus	ppm	1049	1208	995	1040
Barium	ppm	2	0	0	0
Boron	ppm	<1	0	0	6

Depot: VOLVO2990
Unique No: 10996700
Signed: Sean Felton
Report Date: 29 Apr 2024

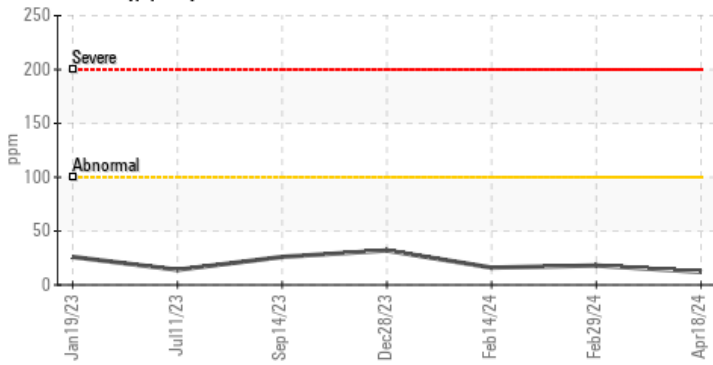


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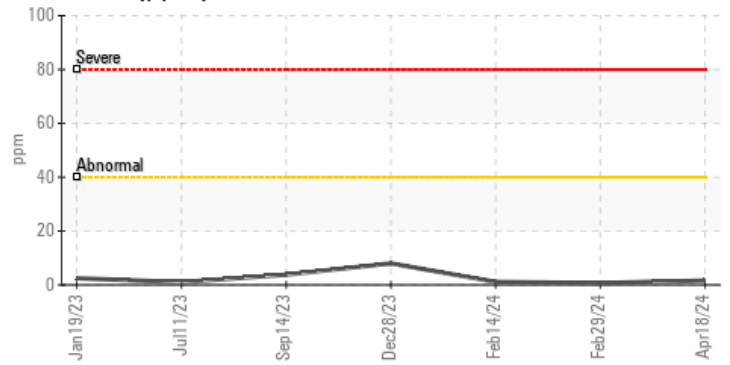


GRAPHS

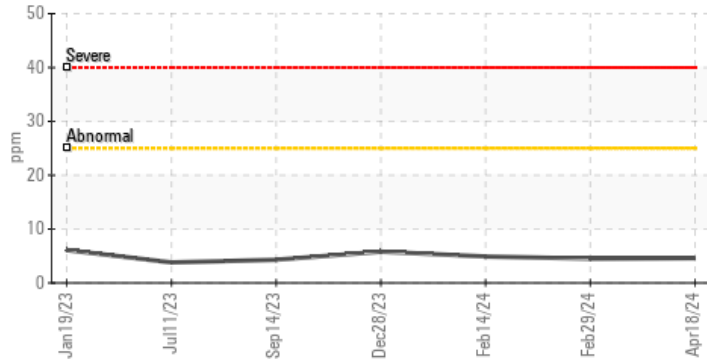
Iron (ppm)



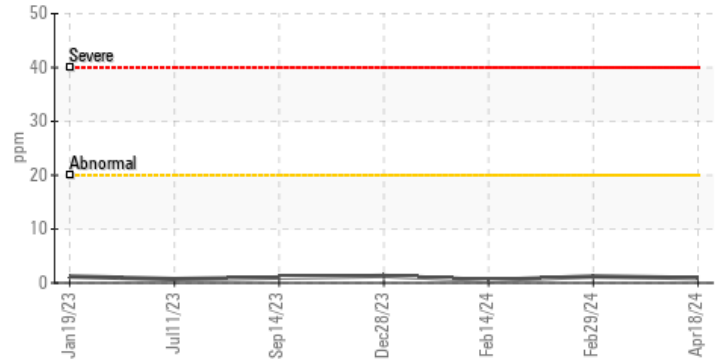
Lead (ppm)



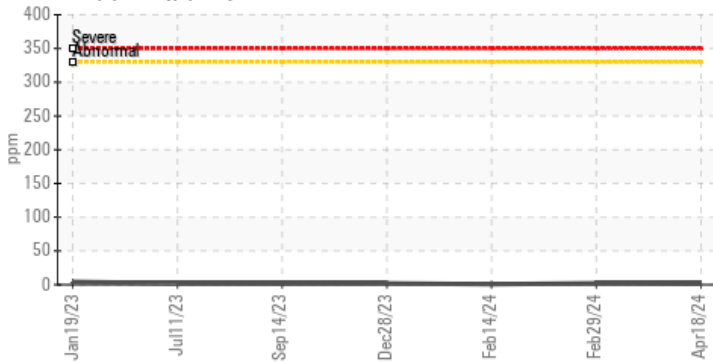
Aluminum (ppm)



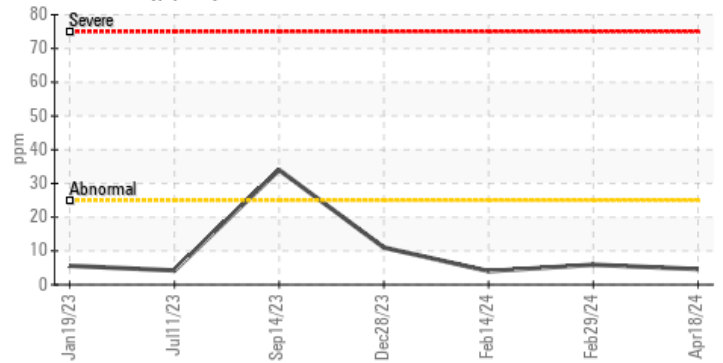
Chromium (ppm)



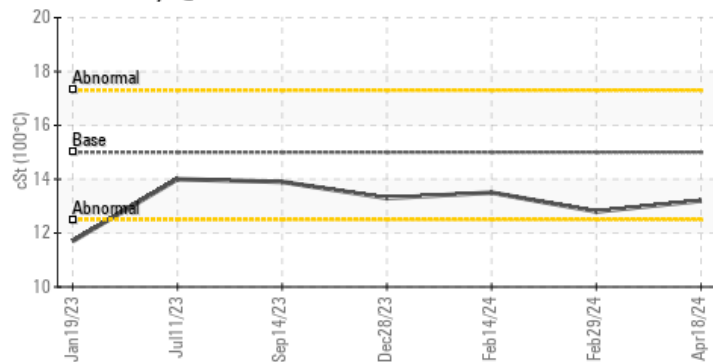
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

