



CONSTRUCTION EQUIPMENT

GDS MARSUVE VOLVO L90H 625879 - DIESEL ENGINE



Sample No: VCP391801
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP391801	VCP380429	VCP391786	VCP381731
Sample Date	01 Dec 2023	13 Sep 2023	20 Jul 2023	08 Jun 2023
Machine Hours	8874	8390	8057	7572
Oil Hours	500	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.7	13.9
Oxidation (PA)	%	93	87	92	96



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	83	70	82	86
Sulfation (PA)	%	65	64	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	6	6
Sodium	ppm	3	3	3	3
Potassium	ppm	0	1	<1	<1

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

Iron	ppm	9	7	9	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	2	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	44	53	54
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1734	1760	1886	1772
Magnesium	ppm	517	517	577	507
Zinc	ppm	1160	1138	1293	1164
Phosphorus	ppm	963	968	1170	1062
Barium	ppm	<1	0	0	0
Boron	ppm	76	42	52	78

Depot: VOLVO0228
Unique No: 5695799
Signed: Wes Davis
Report Date: 13 Dec 2023

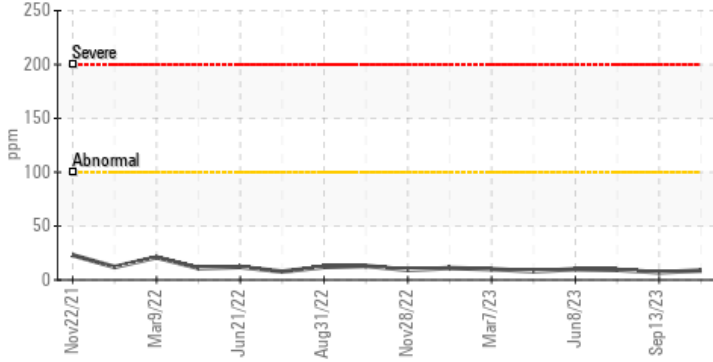


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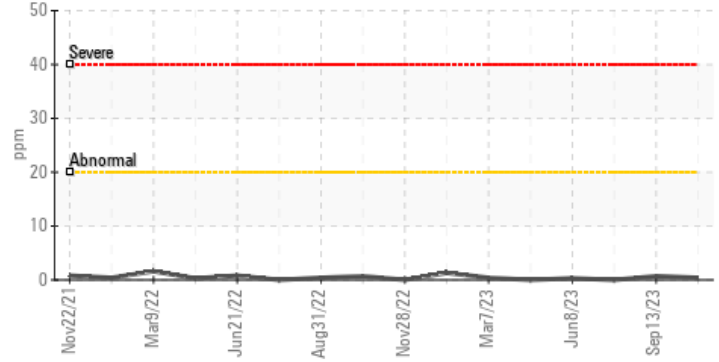


GRAPHS

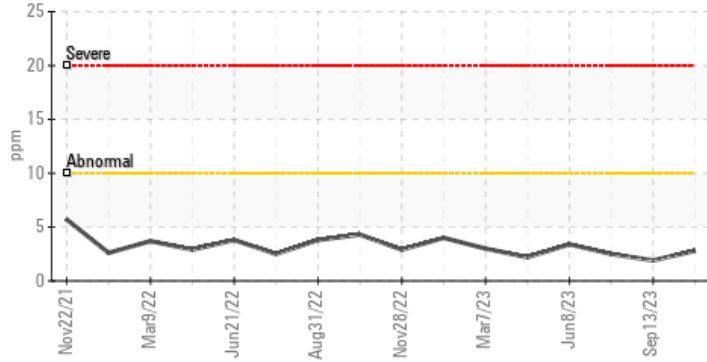
Iron (ppm)



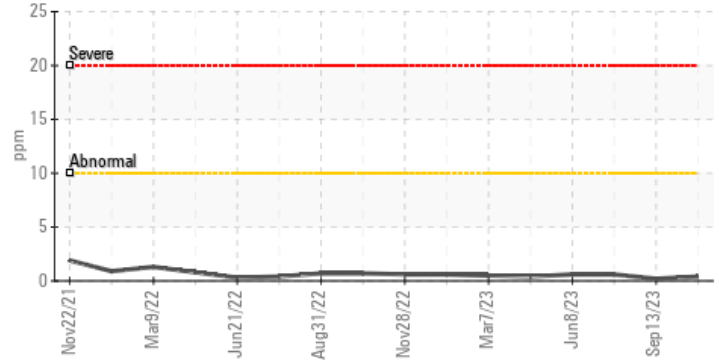
Lead (ppm)



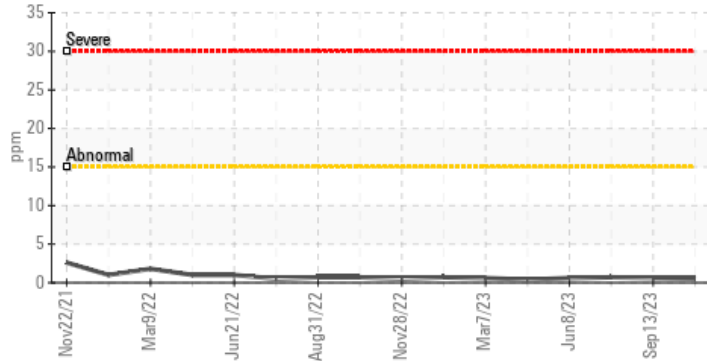
Aluminum (ppm)



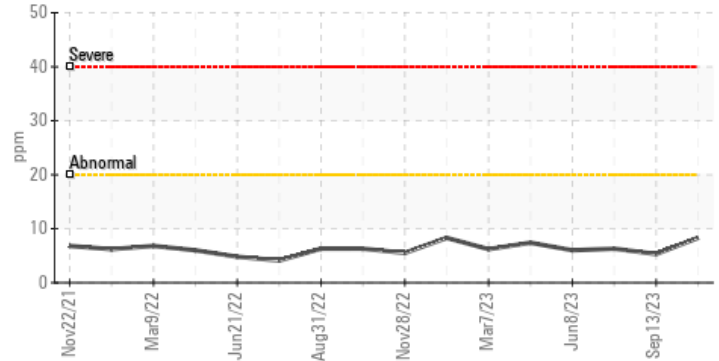
Chromium (ppm)



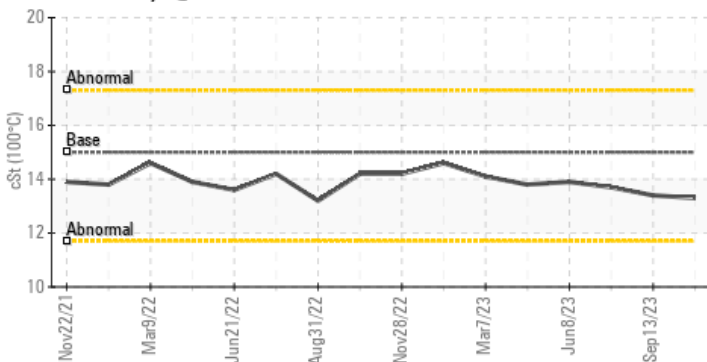
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

