



CONSTRUCTION EQUIPMENT

SCIERIE DION VOLVO L110G 9232 - DIESEL ENGINE



Sample No: VCP449372
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449372	VCP380338	VCP391602	VCP392337
Sample Date	10 May 2024	24 Nov 2023	05 Sep 2023	17 Mar 2023
Machine Hours	27153	26111	25380	24416
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	13.7	13.6
Oxidation (PA)	%	84	80	83	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.9	0.9	0.2
Nitration (PA)	%	60	68	94	67
Sulfation (PA)	%	64	67	73	70
Glycol	%	NEG	0.0	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	14	76	7
Sodium	ppm	2	234	1376	114
Potassium	ppm	0	89	523	26

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	7	17	22	17
Copper	ppm	<1	2	6	<1
Lead	ppm	0	<1	5	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	5	6	3
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	40	46	75	40
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1706	1695	1598	1924
Magnesium	ppm	502	505	487	473
Zinc	ppm	1079	1085	1097	1130
Phosphorus	ppm	905	937	1033	1051
Barium	ppm	0	<1	0	0
Boron	ppm	38	26	10	38

Depot: VOLVO0228
Unique No: 5785758
Signed: Wes Davis
Report Date: 21 May 2024

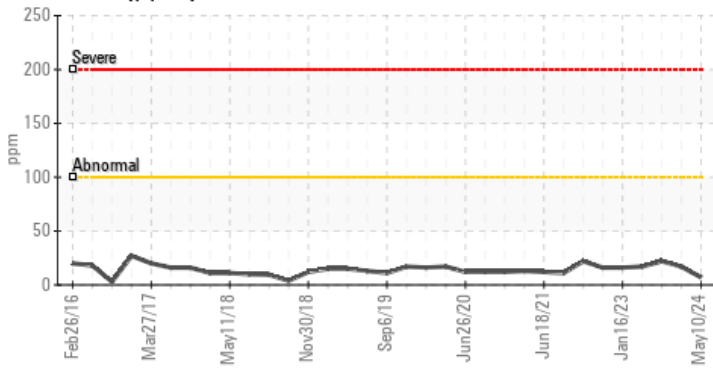


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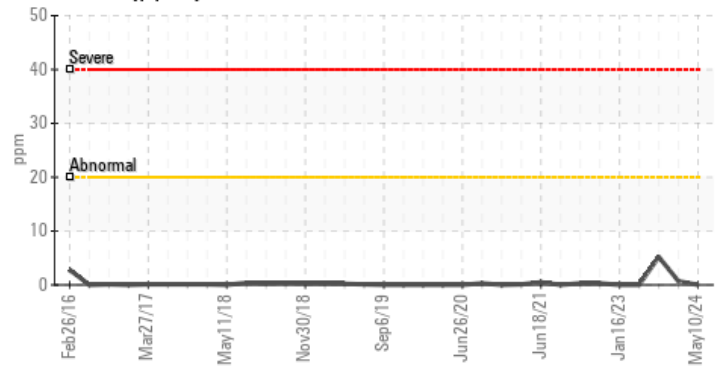


GRAPHS

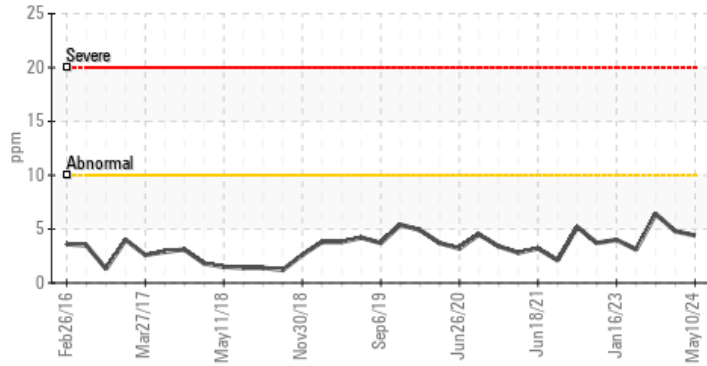
Iron (ppm)



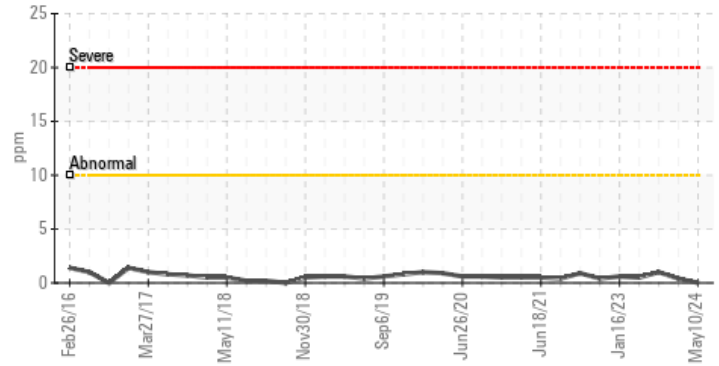
Lead (ppm)



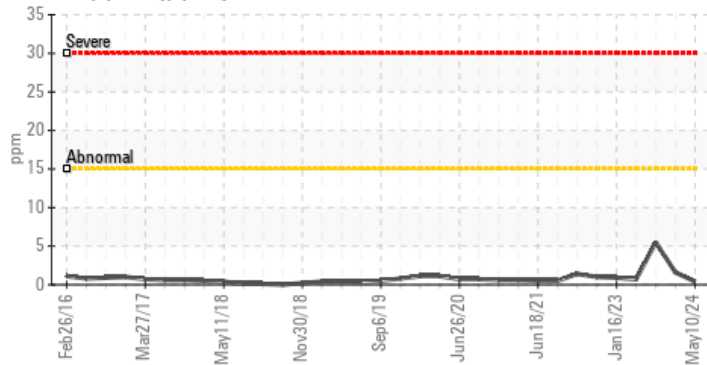
Aluminum (ppm)



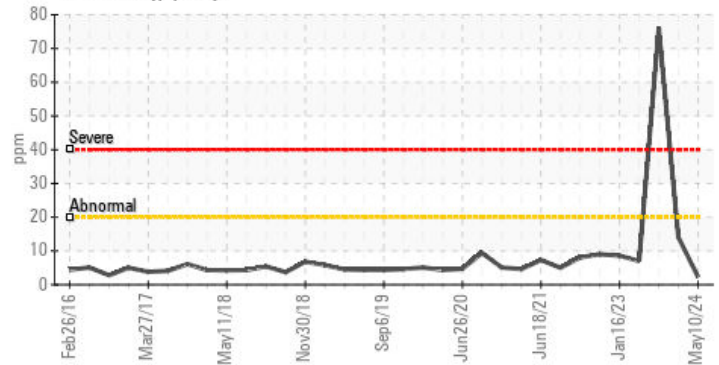
Chromium (ppm)



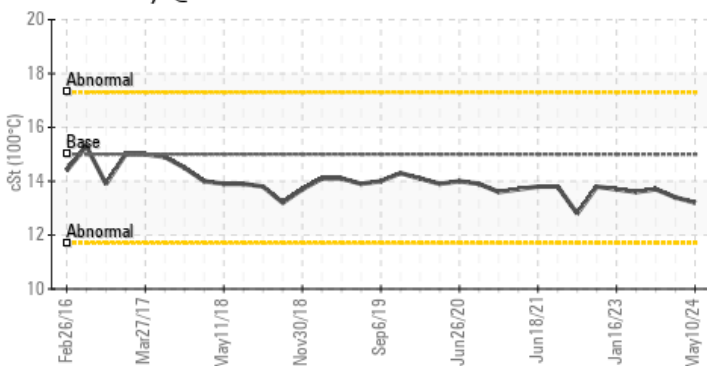
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

