



CONSTRUCTION EQUIPMENT

TRIPLE M 379608 VOLVO L220H 2461 - DIESEL ENGINE



Sample No: VCP430009
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 379608



SAMPLE INFORMATION

Sample Number	VCP430009	VCP394871	VCP334488	VCP299072
Sample Date	25 Sep 2023	19 Jul 2023	01 Nov 2021	19 Jul 2021
Machine Hours	22894	22253	17852	16879
Oil Hours	894	2000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: Sue Hooton
 shooton@strongco.com
 T: (905)331-3835
 F: (905)643-6077



OIL CONDITION

Visc @ 100°C	cSt	12.3	---	12.2	12.3
Oxidation (PA)	%	84	---	88	84



CONTAMINATION

Soot %	%	0	---	0	0
Nitration (PA)	%	57	---	62	58
Sulfation (PA)	%	62	---	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.8
Silicon	ppm	4	6	4	5
Sodium	ppm	3	3	2	2
Potassium	ppm	0	<1	<1	<1

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	7	9	8	5
Copper	ppm	<1	2	1	<1
Lead	ppm	<1	1	1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	4	2	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	40	39	42	38
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1632	1529	1631	1601
Magnesium	ppm	506	506	584	507
Zinc	ppm	1057	1024	1161	1071
Phosphorus	ppm	874	911	1011	942
Barium	ppm	<1	0	0	0
Boron	ppm	24	22	22	42

Depot: VOLVO0252
Unique No: 5657149
Signed: Wes Davis
Report Date: 11 Oct 2023

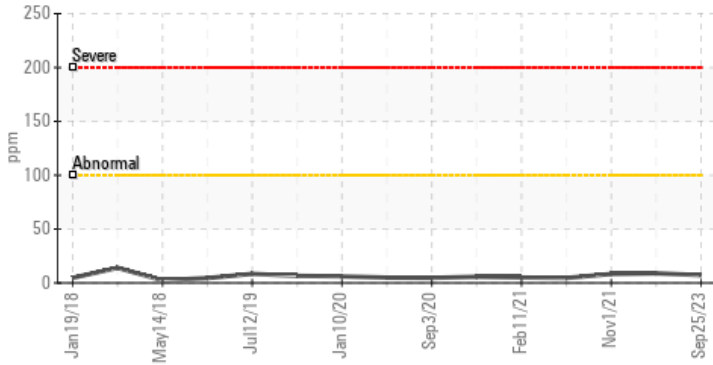


CONSTRUCTION EQUIPMENT

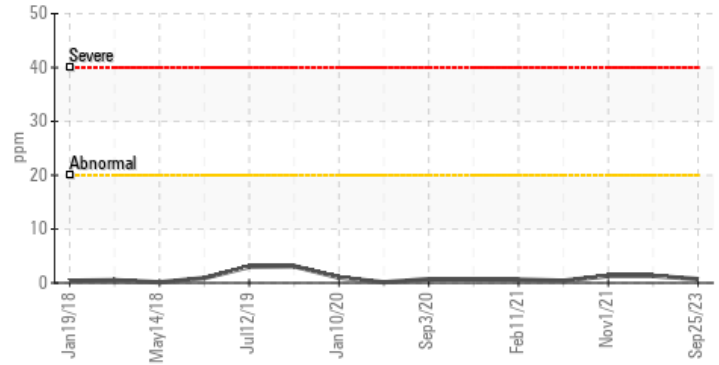


GRAPHS

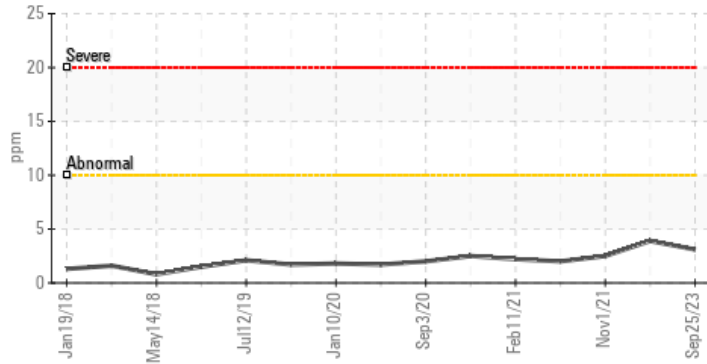
Iron (ppm)



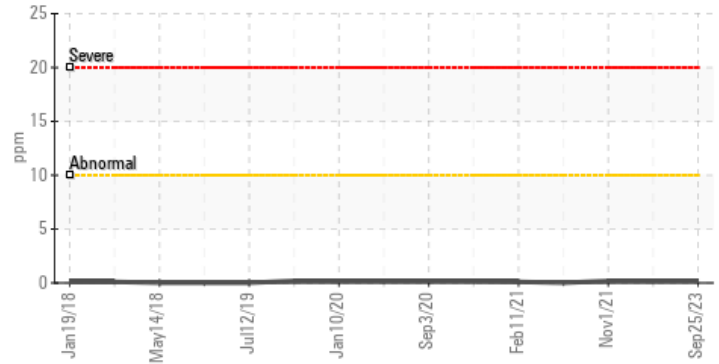
Lead (ppm)



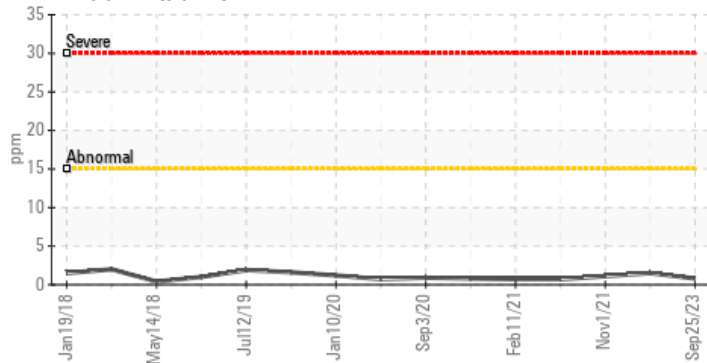
Aluminum (ppm)



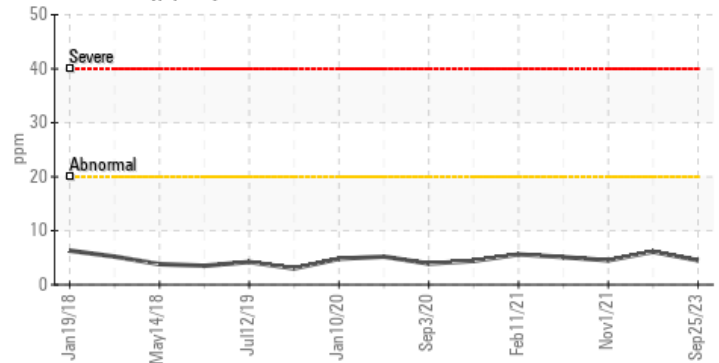
Chromium (ppm)



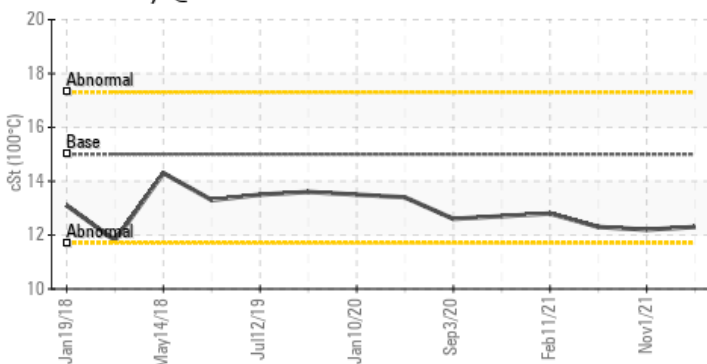
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

