

CONSTRUCTION EQUIPMENT W1218005002 TMT VOLVO L220G 12565 - COOLANT



Sample No: VCP147882

Oil Type: VOLVO COOLANT VCS (YELLOW)

Job No: W1218005002 TMT

SAMPLE II	FORMATION			
Sample Number	-	VCP147882	VCP150694	
Sample Date		02 May 2019	07 Nov 2015	
Machine Hours		8698	1880	
Sample Status		NORMAL	NORMAL	
COOLANT	CONDITION			
рН	Scale 0-14	7.12	7.20	
Reserve Alkalinity	Scale 0-20			
Nitrites	ppm	0	0	
Percentage Glycol	%	■51	5 3	
Freezing Point	°C	-41	- 36	
CONTAMIN	IATION			
Coolant Appearance		normal	normal	
Coolant Color		Yllow	Yllow	



ALTA EQUIPMENT

5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471

Diagnosis

The fluid is suitable for further service. There is no indication of any contamination in the component. The carboxylate level of this fluid is acceptable. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

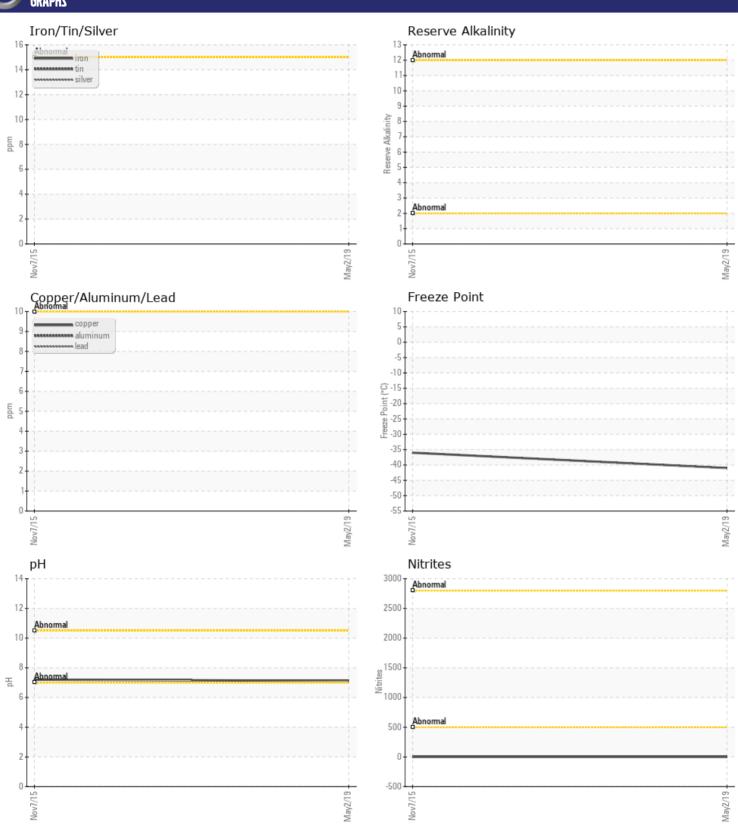
Depot: VOLVO0142
Unique No: 8591652
Signed: Jonathan Hester
Report Date: 10 May 2019







GRAPH



Sample No: VCP147880

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: W1218005SBL2 TMT

VOLVO	INCODMATION				
	INFORMATION				
Sample Number		VCP147880	VCP150696		
Sample Date		02 May 2019	07 Nov 2015		
Machine Hours		8698	1880		
Oil Hours		0	250		
Oil Changed		Changed	Changed		
Sample Status		ABNORMAL	NORMAL		
OIL CON	NITION				
Visc @ 100°C	cSt	<u> </u>	□ 14.1		
	%	66			
Oxidation (PA)	70	00	□40		
VOLVO					
CONTAN	MINATION				
Water	%	△ 0.119	NEG		
Soot %	%	■0.3	0.3		
Nitration (PA)	%	58	4 2		
Sulfation (PA)	%	55	30		
Glycol	%	NEG	NEG		
Fuel	%	■0.5	<1.0		
Silicon	ppm	■ 5	9		
Sodium	ppm	■ 3	1 6		
Potassium	ppm	■0	1		
		_	_		
WEAR N	AETAI C				
_				_	_
ron	ppm	■18	1 6		
Copper	ppm	■1	3		
_ead	ppm	■1	0		
Γin	ppm	■0	1		
Aluminum	ppm	■2	3		
Chromium	ppm	■ <1	- <1		
Molybdenum	ppm	■<1	■46		
Vickel	ppm	■ <1	3		
Titanium	ppm	<1	0		
Silver	ppm	0	0		
Manganese	ppm		- <1		
Vanadium	ppm	0	0		
VOLVO					
ADDITIV	/ES				
Calcium	ppm	1600	□ 1296		
Magnesium	ppm	1000	845		
Zinc		842	1010		
Phosphorus	ppm	715	872		
Pnospnorus Barium	ppm	■ 715	■ 872 ■ 0		
Dailuiii D	ppm	U	U		

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ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611 F: (315)434-9471

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. Tests indicate that there is no fuel present in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: VOLVO0142
Unique No: 8591038
Signed: Jonathan Hester
Report Date: 13 May 2019

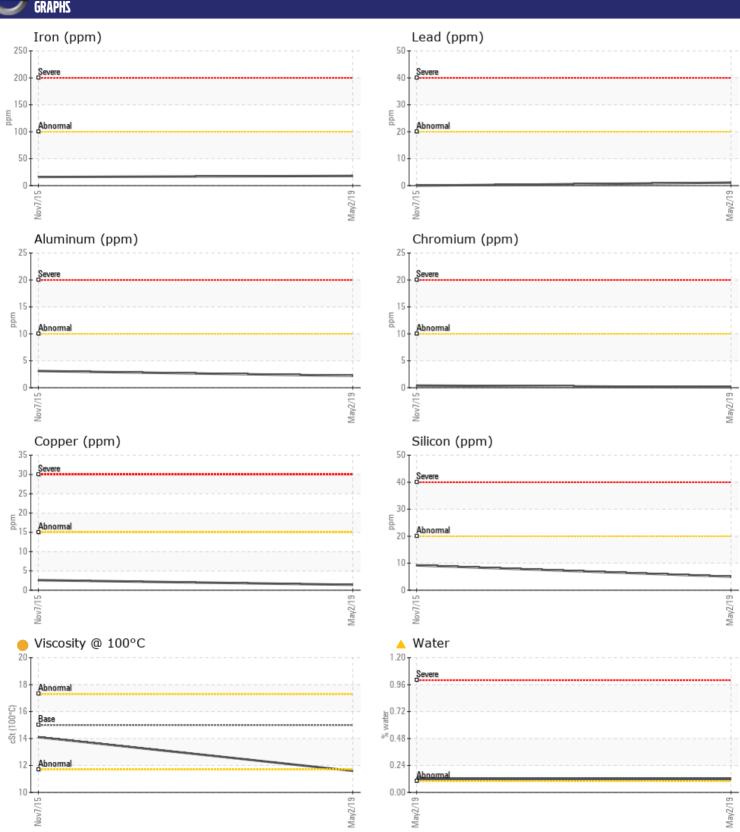
ppm

Boron











CONSTRUCTION EQUIPMENT
SWA092282-10 VOLVO L220G 12565 - TRANSMISSION (AUTO)

Sample No: VCP370769 Oil Type: **DEXRON III**

/A092282-10

CAMDI	E INFORMATION	i		
		 .		
Sample Number		VCP370769	VCP147885	
Sample Date		21 Oct 2022	02 May 2019	
Machine Hours		13648	8698	
Oil Hours		0	0	
Oil Changed		Changed	N/A	
Sample Status		ABNORMAL	NORMAL	
OIL CON	IDITION			
Visc @ 40°C	cSt	28.6	27.3	
VOLVO				
CONTAI	MINATION			
Water	%	NEG	NEG	
Silicon	ppm	■17	4	
Sodium	ppm	■ <1	= <1	
Potassium	ppm	0	0	
	P P 1 1			
VOLVO	AFTAL C			
WEAK	METALS			
Iron	ppm	■32	67	
Copper	ppm	4	7	
Lead	ppm	0	0	
Tin	ppm	■ 0	0	
Aluminum	ppm	2	■3	
Chromium	ppm	■ 0	- <1	
Molybdenum	ppm	0	0	
Nickel	ppm	■0	- <1	
Titanium	ppm	0	□0	
Silver	ppm	■0	<1	
Manganese	ppm	■ 3	<1	
Vanadium	ppm	0	0	
ADDITIV	VES			
Calcium	ppm	68	79	
Magnesium	ppm	- <1	0	
Zinc	ppm	7	42	
Phosphorus	ppm	183	137	
Barium	ppm	2	0	
Boron	ppm	 ■ 82	60	



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Diagnosis

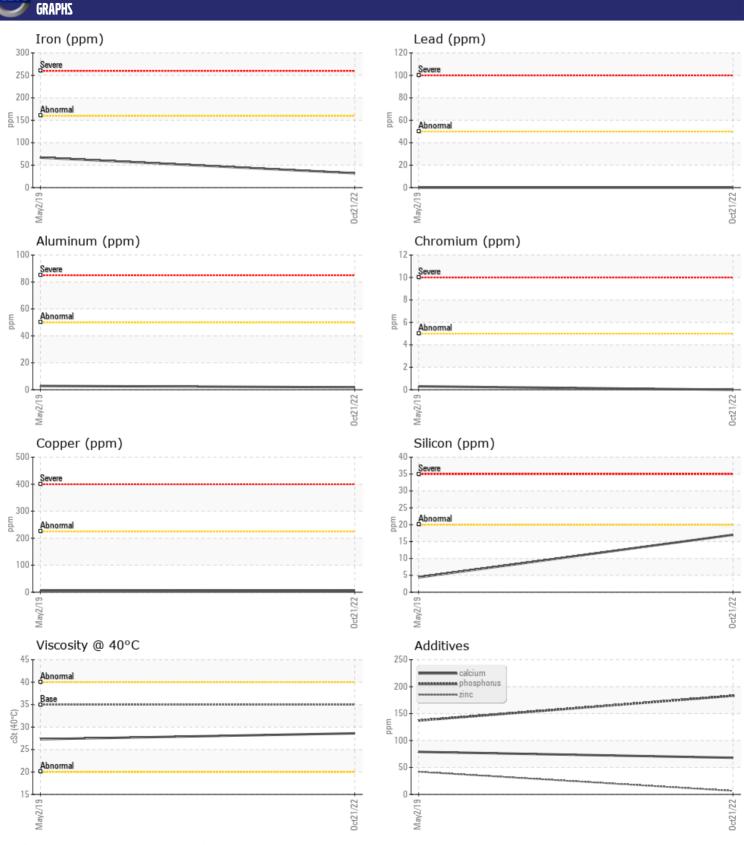
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0142 **Unique No:** 10192929 Signed: Don Baldridge Report Date: 31 Oct 2022











Sample No: VCP147881
Oil Type: {unknown}

Job No: W1218005002 TMT

VOLVO	NEODMATION			
SAMPLE I	NFORMATION			
Sample Number		VCP147881	 	
Sample Date		02 May 2019	 	
Machine Hours		8698	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDI	TION			
		•	 	
Visc @ 40°C	cSt	39.9	 	
Acid Number (AN)	mg KOH/g	■ 0.395	 	
VOLVO				
CONTAMI	NATION			
Water	%	NEG	 	
Particles >4µm	70	3225	 	
Particles >6µm		■ 629	 	
Particles > 14µm		■ 37	 	
ISO 4406:1999 (c)		19/16/12		
Silicon	nnm	□ 19 □ 19	 	
Sodium	ppm	■ 2	 	
Potassium	ppm	■ 2	 	
Potassium	ppm	3	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	10	 	
Copper	ppm	3	 	
Lead	ppm	■<1	 	
Tin	ppm	O	 	
Aluminum	ppm	■8	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	<1	 	
Nickel	ppm	■<1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	
ADDITIVE	·c			
ADDITIVE	.5			
Calcium	ppm	167	 	
Magnesium	ppm	2	 	
Zinc	ppm	461	 	
Phosphorus	ppm	352	 	



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611 F: (315)434-9471

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO0142Unique No:8590738Signed:Don BaldridgeReport Date:09 May 2019

ppm

ppm

Barium

Boron

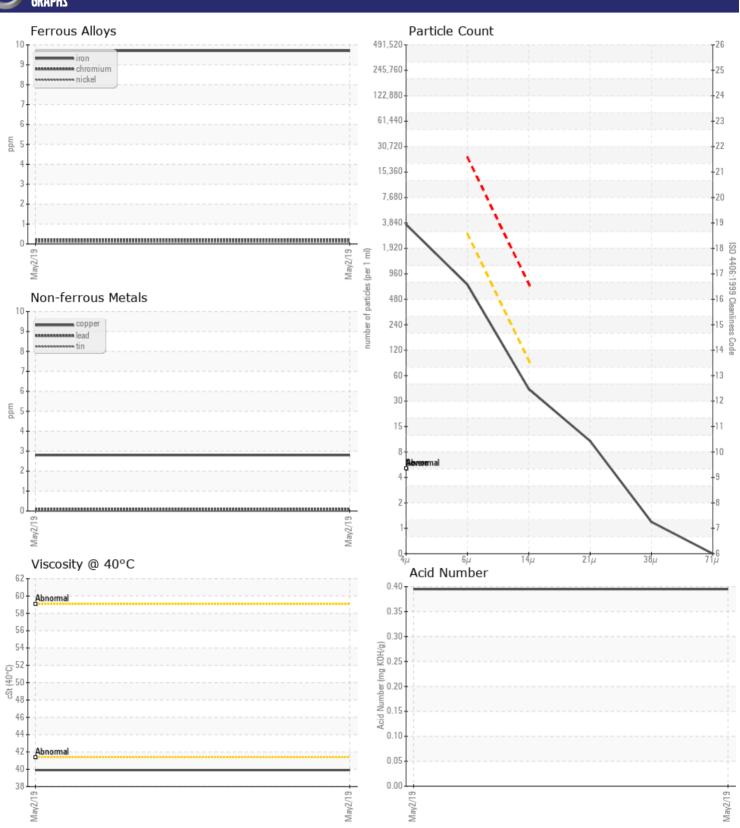
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CONSTRUCTION EQUIPMENT W121800SRL2 TMT VOLVO L220G 12565 - FRONT AXLE



Sample No: VCP147883
Oil Type: {unknown}

Job No: W121800SRL2 TMT

SAMPLE	INFORMATIO	N		
Sample Number		VCP147883	 	
Sample Date		02 May 2019	 	
Machine Hours		8698	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
		1101111111		
VOLVO	DITION			
OIL CON	UI I IUN			
Visc @ 40°C	cSt	40.6	 	
COLVO	MINATION			
_		NEC		
Water	%	NEG	 	
Silicon	ppm	■11	 	
Sodium	ppm	1	 	
Potassium	ppm	17	 	
VOLVO				
WEAR N	METALS			
Iron	ppm	□ 39	 	
Copper	ppm	<1	 	
Lead	ppm	<u> </u>	 	
Tin	ppm	■0	 	
Aluminum	ppm	1	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■<1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	-<1	 	
Vanadium	ppm	0	 	
ADDITIV	731			
_				
Calcium	ppm	■3648	 	
Magnesium	ppm	■11	 	
Zinc	ppm	■1497	 	
Phosphorus	ppm	■1088	 	
Barium	ppm	0	 	
Boron	ppm	109	 	



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611 F: (315)434-9471

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.

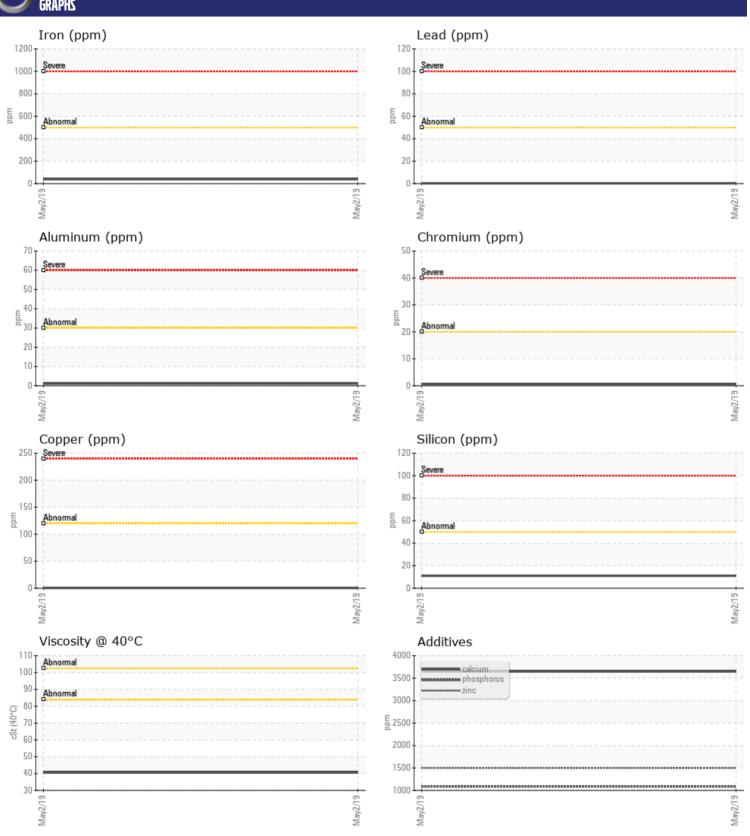
Depot:VOLVO0142Unique No:8591058Signed:Jonathan HesterReport Date:10 May 2019

Contact/Location: JIM STRIGLE - VOLVO0142











CONSTRUCTION EQUIPMENT W1218005002 TMT VOLVO L220G 12565 - REAR AXLE



Sample No: VCP147884
Oil Type: {unknown}

Job No: W1218005002 TMT

VOLVO	INFORMATION			
	INFURMATIUN		<u> </u>	_
Sample Number		VCP147884		
Sample Date		02 May 2019		
Machine Hours		8698		
Oil Hours		0		
Oil Changed		Changed		
Sample Status		NORMAL		
OIL CON	NITION			
Visc @ 40°C	cSt	41.0		
VOLVO				
CONTAN	MINATION			
Water	%	NEG		
Silicon		MEG ■10		
	ppm	_		
Sodium	ppm	1		
Potassium	ppm	■ 4		
VOLVO				
WEAR M	METALS			
Iron	ppm	■35		
Copper	ppm	<1		
Lead	ppm	<u> </u>		
Tin	ppm	■0		
Aluminum	ppm	■<1		
Chromium	ppm	-<1		
Molybdenum	ppm	0		
Nickel	ppm	■0		
Titanium	ppm	<1		
Silver	ppm	0		
Manganese	ppm	<1		
Vanadium		0		
variaululli	ppm	U		
VOLVO				
ADDITIV	TES			
Calcium	ppm	3852		
Magnesium	ppm	11		
Zinc	ppm	1562		
Phosphorus	ppm	1122		
Barium	ppm	0		
Boron	ppm	115		
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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.

Depot:VOLVO0142Unique No:8591059Signed:Don BaldridgeReport Date:09 May 2019







