

SW0782500 KOMATSU PC490LC A40410 - DIESEL ENGINE

Sample No: VCP311707

Oil Type: **DIESEL ENGINE OIL SAE 15W40**

Job No: SWO782500

CAMPLE II	NFORMATION			
	MI OMPIATION	VCD244707	 	
Sample Number		VCP311707	 	
Sample Date		03 Dec 2021	 	
Machine Hours		4736	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	■13.7	 	
Base Number (BN)	mg KOH/g	■9.6	 	
Oxidation (PA)	%	67	 	
CONTAMIN	NATION			
CONTAMIN				
Water	%	NEG	 	
Soot %	%	■ 0.1	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	57	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm	■ 3	 	
Potassium	ppm	6	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	41	 	
Copper	ppm	6	 	
Lead	ppm	■2	 	
Tin	ppm	□ <1	 	
Aluminum	ppm	□ <1	 	
Chromium	ppm	<1	 	
Molybdenum	ppm	<u></u> 2	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	<1	 	
Manganese	ppm	<u></u> <1	 	
Vanadium	ppm	0	 	
ADDITIVE	7			
ADDITIVE				
Calcium	ppm	2168	 	
Magnesium	ppm	19	 	
Zinc	ppm	1154	 	
Phosphorus	ppm	1013	 	
Barium	ppm	0	 	

ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200 F:

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 suitable for further service.

Depot: **VOLVO8885 Unique No:** 9775049 Signed: Wes Davis Report Date: 14 Dec 2021

Contact/Location: MARK DEROSA - VOLVO8885

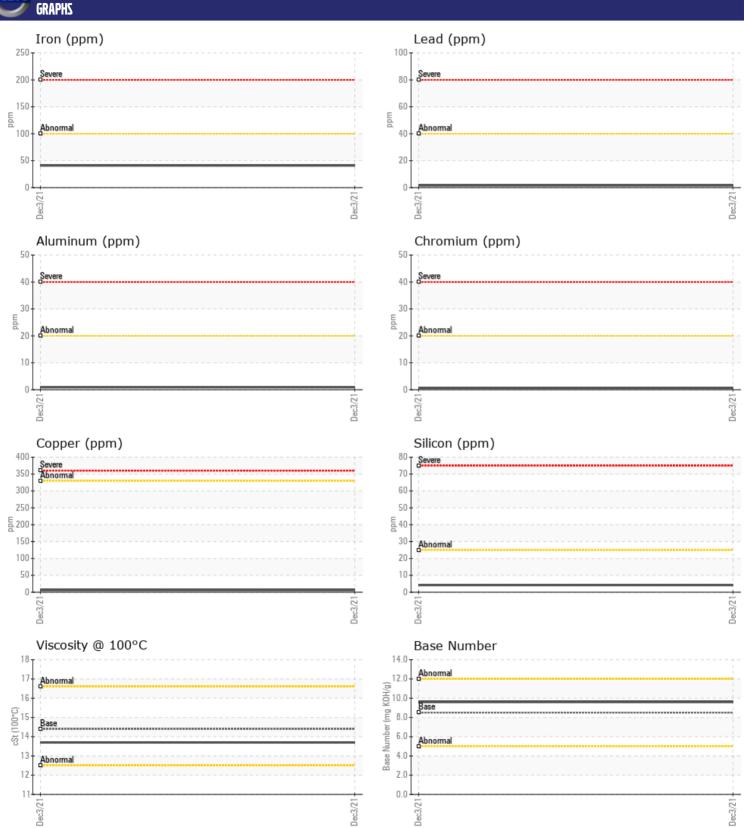
ppm

Boron









Sample No: VCP05421147

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: SWO782500 ACQUA

SAMPLE	NFORMATION			
Sample Number	-	VCP05421147	 	
Sample Date		03 Dec 2021	 	
Machine Hours		4736	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL COND	ITION			
_		= 44.0	 	
Visc @ 40°C	cSt	44.8	 	
Acid Number (AN)	mg KOH/g	■ 0.327	 	
VOLVO				
CONTAMI	NATION			
Water	%	NEG	 	
Particles >4µm		^ 21439	 	
Particles >6µm		6360	 	
Particles > 14µm		△ 632	 	
ISO 4406:1999 (c)		22/20/16	 	
Silicon	ppm	■ <1	 	
Sodium	ppm	2	 	
Potassium	ppm	■ 0	 	
WEAR ME	PIAT			
_				
Iron	ppm	7	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin Aluminum	ppm	□ 0	 	
Chromium	ppm	= 0	 	
Molybdenum	ppm	= <1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■0	 	
Vanadium	ppm	0	 	
Turida di I	PPIII			
VOLVO				
ADDITIVE	.7			
Calcium	ppm	111	 	
Magnesium	ppm	■ 7	 	
Zinc	ppm	443	 	
Phosphorus	ppm	■ 353	 	

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5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200 F:

Diagnosis

No corrective action is recommended at this time. 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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO8885Unique No:9775338Signed:Angela BorellaReport Date:14 Dec 2021

Contact/Location: MARK DEROSA - VOLVO8885

0

2

ppm

ppm

Barium

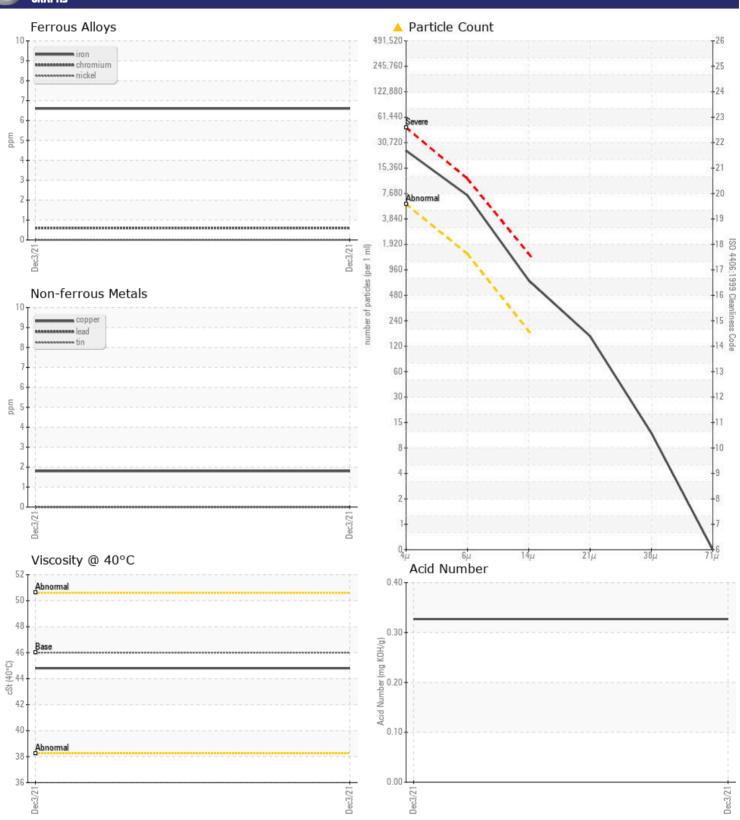
Boron







GRAPHS



Sample No: VCP309763

Oil Type: TDTO FLUID SAE 30

Job No: SWO782500

VOLVO				
	INFORMATIO	N		
Sample Number	<u>.</u>	VCP309763	 	
Sample Date		03 Dec 2021	 	
Machine Hours		4736	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	96.4	 	
VISC @ 40 C	CSL	90.4	 	
VOLVO				
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	<u> </u>	 	
Sodium	ppm	4	 	
Potassium	ppm	10	 	
VOLVO	ICTAL C			
WEAR M	IF I ALS			
Iron	ppm	<u> </u>	 	
Copper	ppm	■12	 	
Lead	ppm		 	
Tin	ppm	■<1	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	■8	 	
Molybdenum	ppm	2	 	
Nickel	ppm	<1	 	
Titanium	ppm	4	 	
Silver	ppm	<1	 	
Manganese	ppm	■8	 	
Vanadium	ppm	<1	 	
ADDITIV	IES			
Calcium	-	2723	 	
	ppm	_	 	
Magnesium Zinc	ppm	□16 □1014	 	
	ppm	919		
Phosphorus Barium	ppm		 	
	ppm	0		
Boron	ppm	6	 	

ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200 F:

Diagnosis

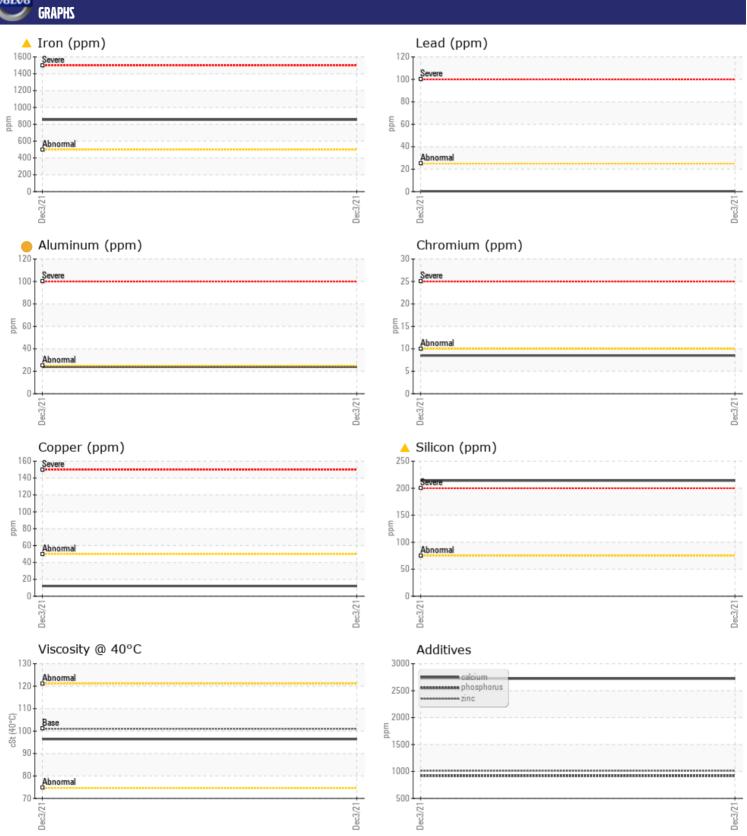
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot:VOLVO8885Unique No:9776048Signed:Don BaldridgeReport Date:15 Dec 2021











SW0782500 KOMATSU PC490LC A40410 - RIGHT FINAL DRIVE

Sample No: VCP05421850

Oil Type: TDTO FLUID SAE 30

Job No: SWO782500

VOLVO	INFORMATIO	7		
	INFURMATIU			
Sample Number		VCP05421850	 	
Sample Date		03 Dec 2021	 	
Machine Hours		4736	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	91.9	 	
VOLVO	IIN A TION			
LUNTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	450	 	
Sodium	ppm	11	 	
Potassium	ppm	■25	 	
VOLVO				
WEAR M	ETAI C			
_				
Iron	ppm	<u>▲</u> 1380	 	
Copper	ppm	16	 	
Lead	ppm		 	
Tin	ppm	- <1	 	
Aluminum	ppm	54	 	
Chromium	ppm	<u>▲</u> 15	 	
Molybdenum	ppm	2	 	
Nickel	ppm	1	 	
Titanium	ppm	7	 	
Silver	ppm	<1	 	
Manganese	ppm	■11	 	
Vanadium	ppm	<1	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	2673	 	
Magnesium	ppm	■27	 	
Zinc	ppm	■1019	 	
Phosphorus	ppm	891	 	
Barium	ppm	■ 5	 	
Boron	ppm	7	 	
DOTOTI	phili			

ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200 F:

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO8885Unique No:9776041Signed:Don BaldridgeReport Date:15 Dec 2021

Contact/Location: MARK DEROSA - VOLVO8885







