

CONSTRUCTION EQUIPMENT HERC VOLVO EC140 315532 - DIESEL ENGINE



Sample No: VCP440240

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: HERC

SAMPLE IN	NFORMATION			
Sample Number		VCP440240	 	
Sample Date		13 Jun 2024	 	
Machine Hours		497	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
Sample Status		NORWAL		
VOLVO				
OIT CONDI.	TION			
Visc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	■8.1	 	
Oxidation (PA)	%	55	 	
CONTAMIN	JATION			
	•			
Water	%	NEG	 	
Soot %	%	■ 0.1	 	
Nitration (PA)	%	38	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	■ <1	 	
Potassium	ppm	2	 	
WEAR ME	ZIAT			
_		- 7	 	
Iron	ppm	7		
Copper	ppm	■ <1	 	
Lead	ppm	□ 0		
Tin	ppm	0	 	
Aluminum	ppm	5	 	
Chromium	ppm	□ <1	 	
Molybdenum	ppm	□ 79	 	
Nickel	ppm	□ <1	 	
Titanium	ppm	■ <1	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	<1	 	
VOLVO				
ADDITIVE:				
Calcium	ppm	1329	 	
Magnesium	ppm	■398	 	
Zinc	ppm	1207	 	
Phosphorus	ppm	■ 983	 	
Barium	ppm	■0	 	
	In Lance			

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY

khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:VOLVO0093Unique No:11089393Signed:Wes DavisReport Date:24 Jun 2024

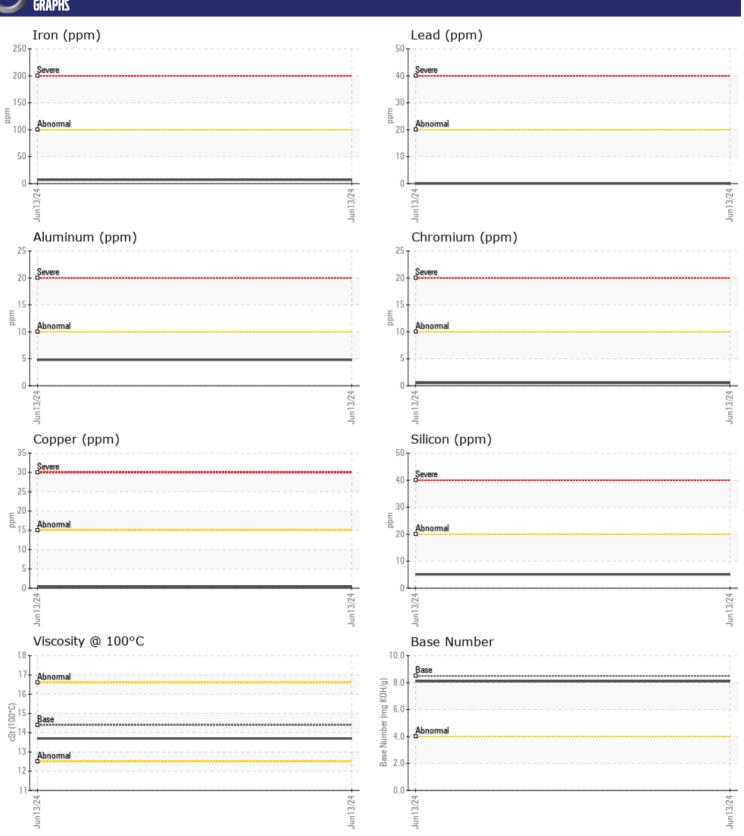
ppm

Boron











CONSTRUCTION EQUIPMENT HERC VOLVO EC140 315532 - HYDRAULIC SYSTEM



Sample No: VCP445599

Oil Type: AW HYDRAULIC OIL ISO 46

Job No: HERC

VOLVO	LINEODMATION			
_	E INFORMATION			_
Sample Number		VCP445599	 	
Sample Date		13 Jun 2024	 	
Machine Hours		497	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CON	INITION			
_		- 42 02		
Visc @ 40°C	cSt	43.82	 	
Acid Number (Al	N) mg KOH/g	■ 0.52	 	
VOLVO				
CONTAR	MINATION			
Water	%	NEG	 	
Particles >4µm	70	A 82168	 	
Particles > 6µm		<u>▲</u> 20382	 	
Particles > 14µm		14	 	
ISO 4406:1999 (c)	24/22/11	 	
Silicon	ppm	□ 14	 	
Sodium	ppm	■0	 	
Potassium	ppm	2	 	
Otassiaiii	ppiii			
VOLVO				
WEAR I	METALS			
Iron	ppm	5	 	
Copper	ppm	15	 	
Lead	ppm	2	 	
Tin	ppm	■<1	 	
Aluminum	ppm	■3	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	2	 	
Nickel	ppm	■<1	 	
Titanium	ppm	<1	 	
Silver	ppm	<1	 	
Manganese	ppm	-<1	 	
Vanadium	ppm	<1	 	
	-			
ADDITIV	711			
_	<u> </u>			
Calcium	ppm	185	 	
Magnesium	ppm	4	 	
Zinc	ppm	566	 	
Phosphorus	ppm	448	 	
Parium	D D D	— 1		

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Diagnosis

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The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:VOLVO0093Unique No:11089654Signed:Wes DavisReport Date:26 Jun 2024

Contact/Location: KENNY HANEY - VOLVO0093

ppm

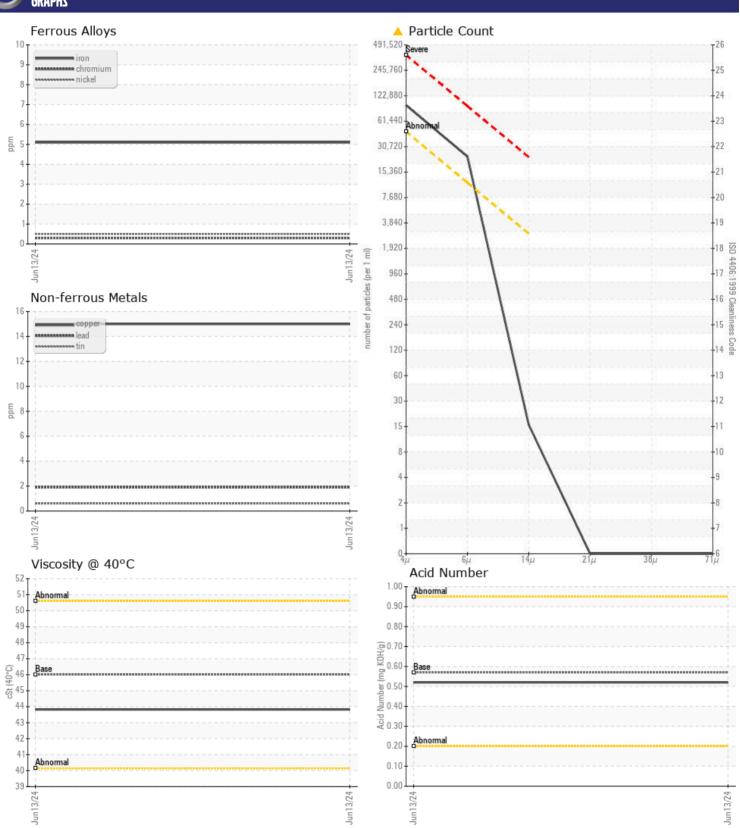
Barium Boron







GRAPHS





CONSTRUCTION EQUIPMENT HERC VOLVO EC140 315532 - SWING DRIVE



Sample No: VCP444339

Oil Type: GEAR OIL SAE 85W140

Job No: HERC

SAMPLE	INFORMATIO	N		
Sample Number		VCP444339	 	
Sample Date		13 Jun 2024	 	
Machine Hours		497	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
Sample Status		NORIVIAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	174	 	
LUNTAL	MINATION			
_		·		
Water	%	NEG	 	
Silicon	ppm	■30	 	
Sodium	ppm	■2	 	
Potassium	ppm	■ 2	 	
VOLVO				
WEAR N	METALS			
Iron	ppm	155	 	
Copper	ppm	 ■ 10	 	
Lead	ppm	O	 	
Tin	ppm	0	 	
Aluminum	ppm	1	 	
Chromium	ppm	2	 	
Molybdenum	ppm	= <1	 	
Nickel	ppm	■0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	3	 	
Vanadium	ppm	<1	 	
VOLVO	IFC			
ADDITIV	E7			
Calcium	ppm	70	 	
Magnesium	ppm	1	 	
Zinc	ppm	43	 	
Phosphorus	ppm	■366	 	
Barium	ppm	■ 3	 	
Boron	ppm	■1	 	

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Diagnosis

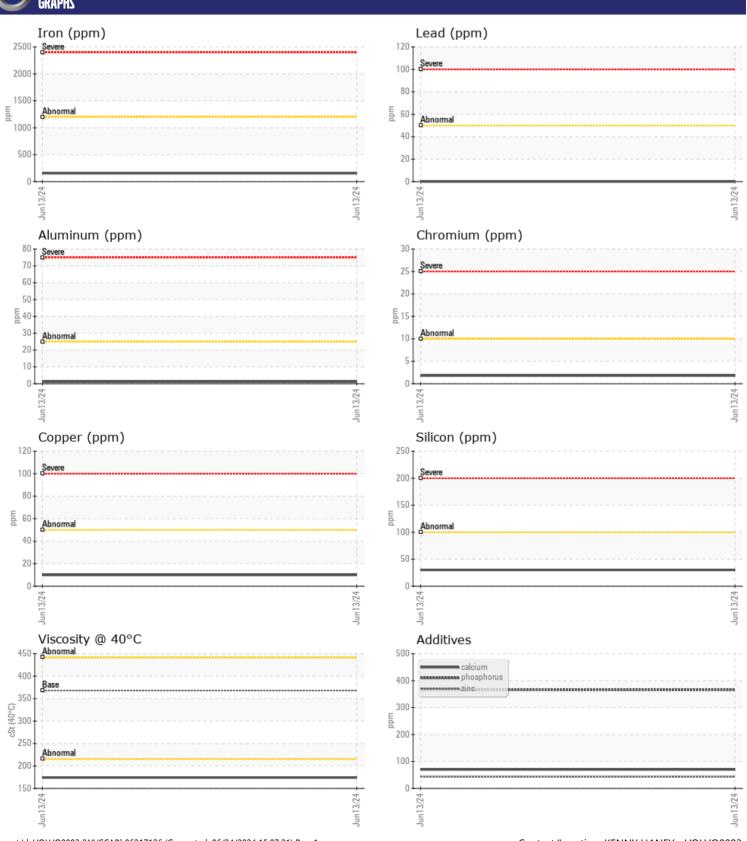
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0093Unique No:11089990Signed:Sean FeltonReport Date:24 Jun 2024











CONSTRUCTION EQUIPMENT HERC VOLVO EC140 315532 - REAR LEFT FINAL DRIVE



Sample No: VCP440214

Oil Type: GEAR OIL SAE 85W140

Job No: HERC

CAMDIE	INFORMATIO	N		
	. INFUNMATIU			_
Sample Number		VCP440214	 	
Sample Date		13 Jun 2024	 	
Machine Hours		497	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	128.1	 	
VOLVO	AIN A TION			
LUNIAN	MINATION			
Water	%	NEG	 	
Silicon	ppm	20	 	
Sodium	ppm	6	 	
Potassium	ppm	2	 	
VOLVO				
WEAR M	AFTAI S			
Iron		730	 	
Copper	ppm	<u> </u>	 	
Lead	ppm		 	
Tin	ppm	43	 	
Aluminum	ppm	■45	 	
Chromium	ppm	<u>■</u> 2	 	
Molybdenum	ppm	■ <1	 	
Nickel	ppm	2	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	■ 10	 	
Vanadium	ppm	0	 	
variaululli	ppm	U	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	57	 	
Magnesium	ppm	<u></u> 24	 	
Zinc	ppm	■78	 	
Phosphorus	ppm	<u>^</u> 269	 	
Barium	ppm	-<1	 	
Boron	ppm	1	 	
	Pp	-		

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Diagnosis

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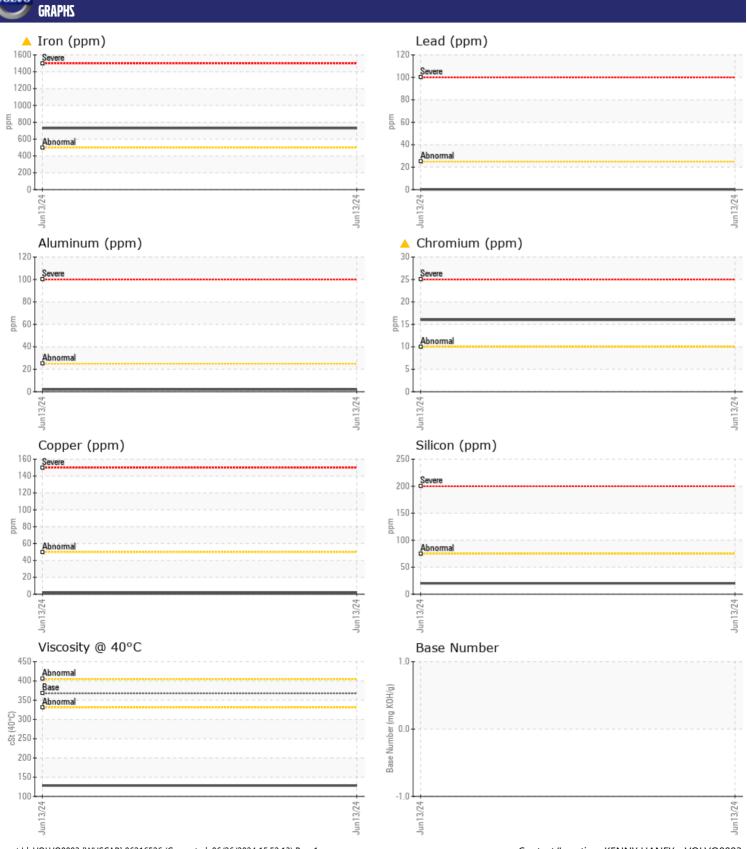
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 11089390
Signed: Jonathan Hester
Report Date: 26 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO EC 140 3 15532 - REAR RIGHT FINAL DRIVE



Sample No: VCP440209

Oil Type: GEAR OIL SAE 85W140

Job No:

VOLVO	E INFORMATIO	N		
Sample Number		VCP440209	 	
Sample Date		13 Jun 2024	 	
Machine Hours		497	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
VOLVO				
OIL CON	IDITION			
Visc @ 40°C	cSt	139	 	
VOLVO	MINISTIAN			
CONTAI	MINATION			
Water	%	NEG	 	
Silicon	ppm	17	 	
Sodium	ppm	■8	 	
Potassium	ppm	2	 	
WEAR	METALS			
Iron	ppm	<u></u> 886	 	
Copper	ppm	1	 	
Lead	ppm	0	 	
Tin	ppm	<u></u> 41	 	
Aluminum	ppm	2	 	
Chromium	ppm	<u> </u>	 	
Molybdenum	ppm	1	 	
Nickel	ppm		 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	12	 	
Vanadium	ppm	<1	 	
VOLVO				
ADDITIV	VES			
Calcium	ppm	113	 	
Magnesium	ppm	2	 	
Zinc	ppm	7 0	 	
Phosphorus	ppm	■305	 	
Barium	ppm	<u>2</u>	 	
Boron	ppm	2	 	
	PPIII			

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Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0093Unique No:11089992Signed:Jonathan HesterReport Date:25 Jun 2024

Contact/Location: KENNY HANEY - VOLVO0093







