



CONSTRUCTION EQUIPMENT

573874 HERC VOLVO ECR145 316525 - DIESEL ENGINE



Sample No: VCP454775
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 573874 HERC



SAMPLE INFORMATION

Sample Number	VCP454775	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY

5210 REESE ROAD
 DAVIE, FL
 US 33314

Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	59	---	---	---

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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 77	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1369	---	---	---
Magnesium	ppm	█ 379	---	---	---
Zinc	ppm	█ 1179	---	---	---
Phosphorus	ppm	█ 1016	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	471	---	---	---

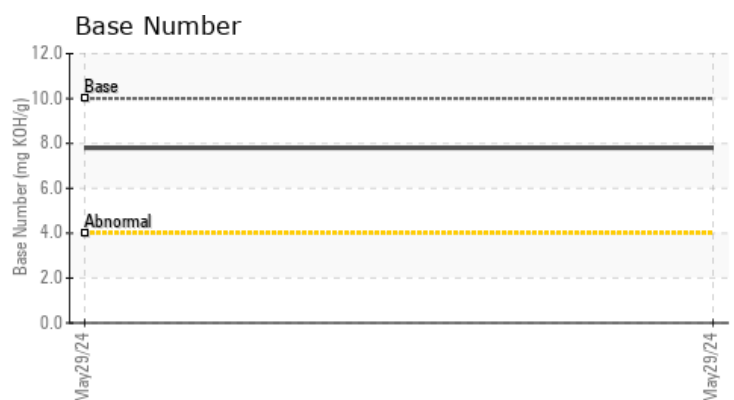
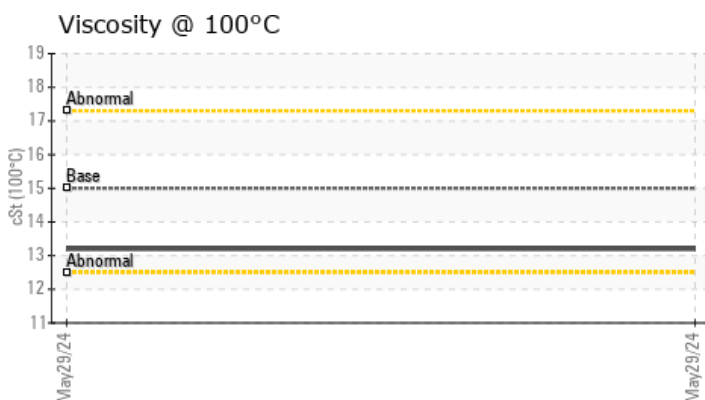
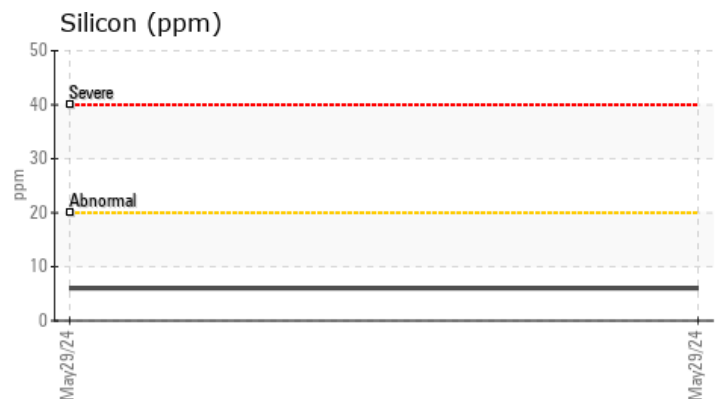
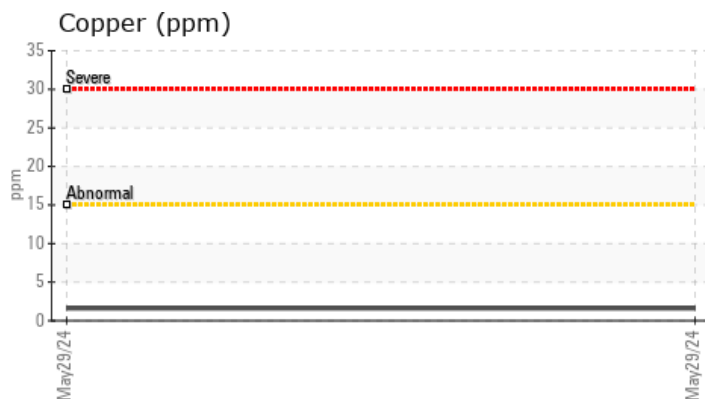
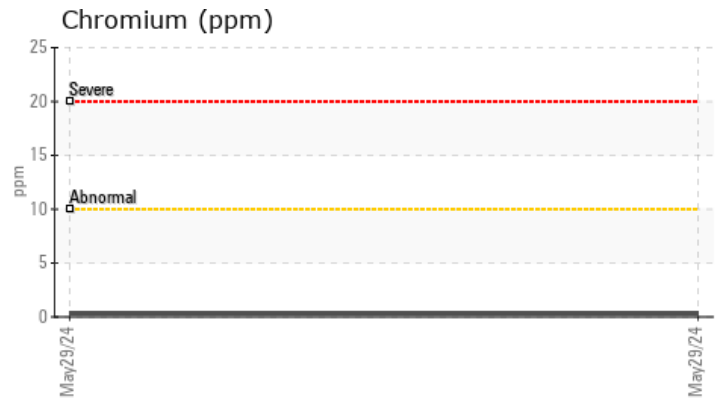
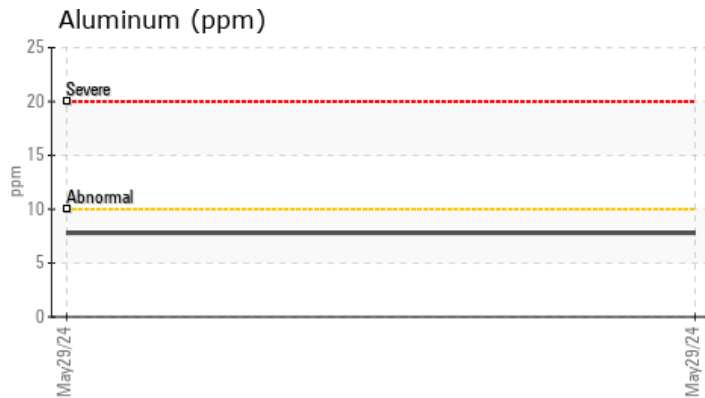
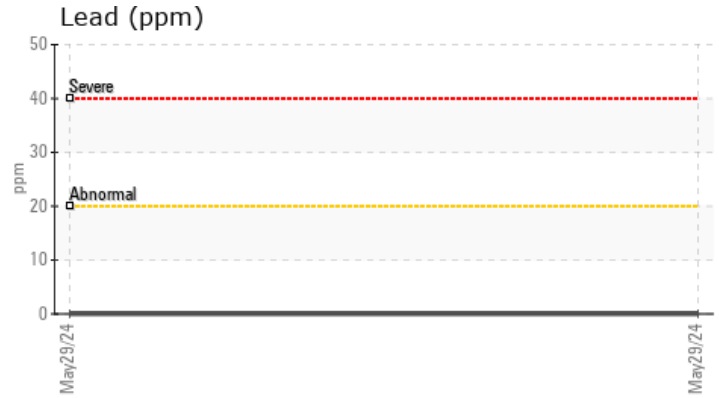
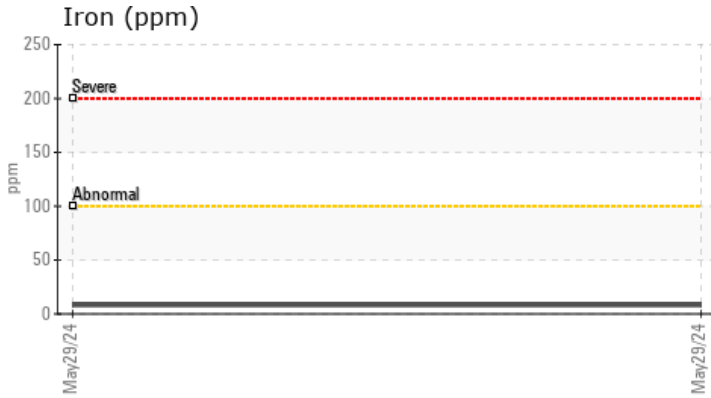
Depot: VOLVO0095
Unique No: 11060787
Signed: Wes Davis
Report Date: 04 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

573874 HERC VOLVO ECR145 316525 - HYDRAULIC SYSTEM



Sample No: VCP445883
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 573874 HERC



SAMPLE INFORMATION

Sample Number	VCP445883	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

ALTA EQUIPMENT COMPANY

5210 REESE ROAD
 DAVIE, FL
 US 33314

Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 40°C	cSt	█ 51.5	---	---	---
Acid Number (AN)	mg KOH/g	█ 1.11	---	---	---



CONTAMINATION

Water	%	▲ 1.76	---	---	---
Silicon	ppm	█ 32	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 20	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1120	---	---	---
Magnesium	ppm	█ 7	---	---	---
Zinc	ppm	█ 830	---	---	---
Phosphorus	ppm	█ 626	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Diagnosis

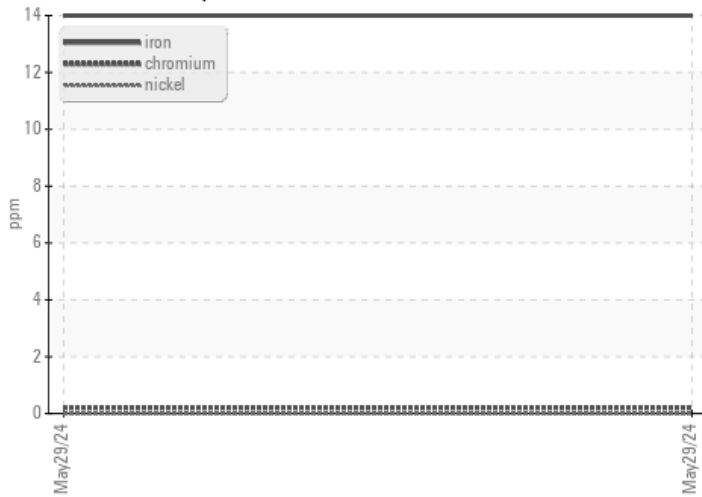
We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. High concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

Depot: VOLVO0095
Unique No: 11061195
Signed: Don Baldrige
Report Date: 06 Jun 2024

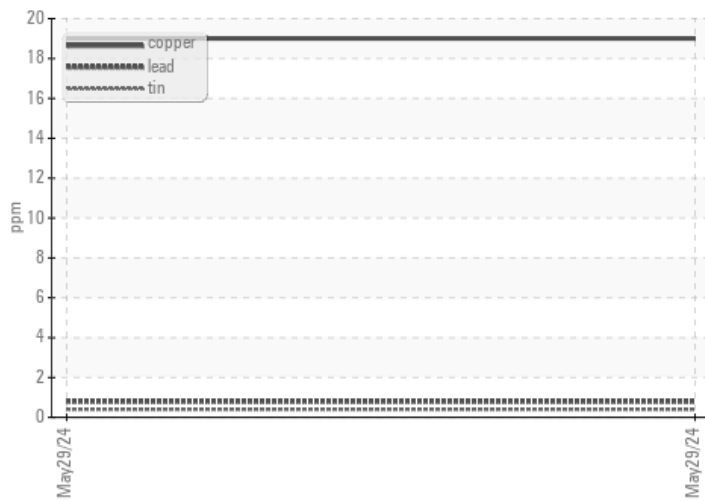


GRAPHS

Ferrous Alloys



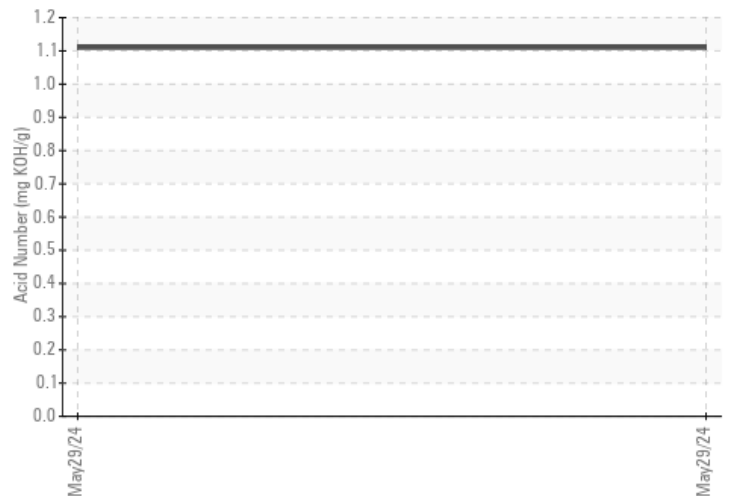
Non-ferrous Metals



Viscosity @ 40°C



Acid Number





CONSTRUCTION EQUIPMENT

573874 HERC RENTALS VOLVO ECR145 316525 - FRONT LEFT FINAL DRIVE



Sample No: VCP454773
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 573874 HERC RENTALS



SAMPLE INFORMATION

Sample Number	VCP454773	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

5210 REESE ROAD
DAVIE, FL
US 33314

Contact: N. FACEY
nfacey@altaequipfl.com
T: (954)581-4744
F: (954)583-0318



OIL CONDITION

Visc @ 40°C	cSt	█ 141	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The tin level is abnormal. All other metal levels are typical for a new component breaking in. 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	█ 306	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	▲ 33	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 22	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 33	---	---	---
Phosphorus	ppm	█ 327	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 0	---	---	---

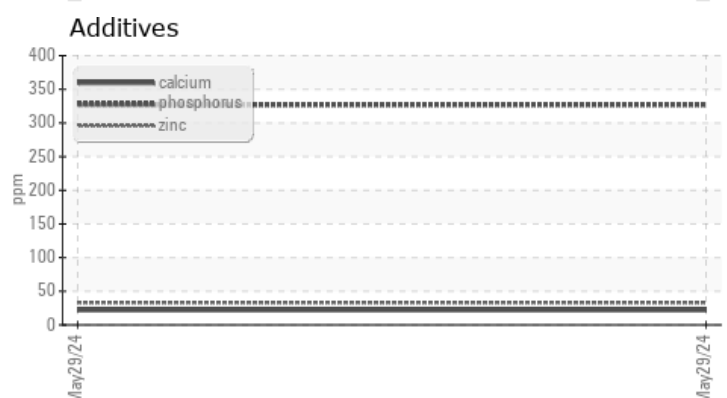
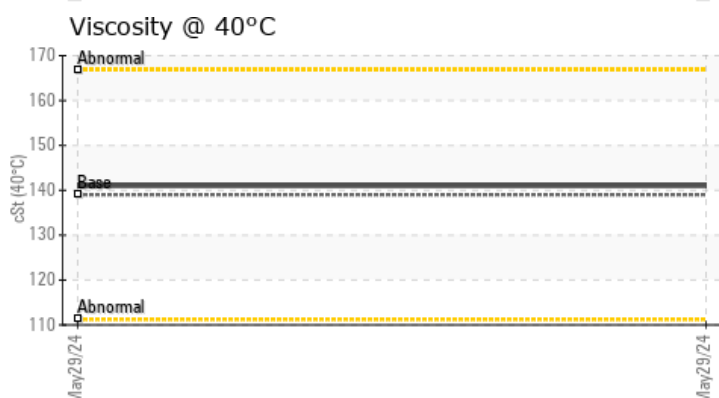
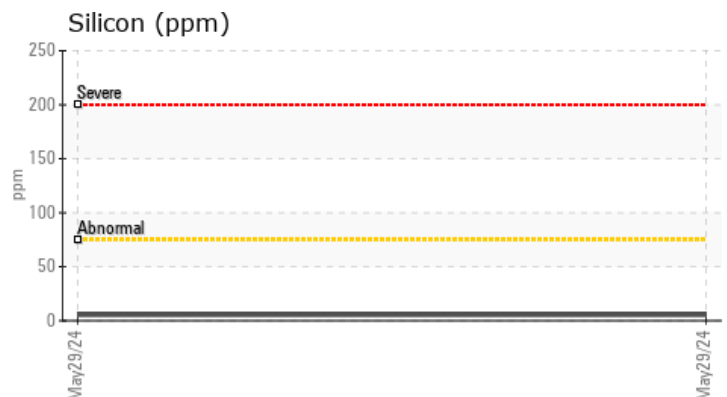
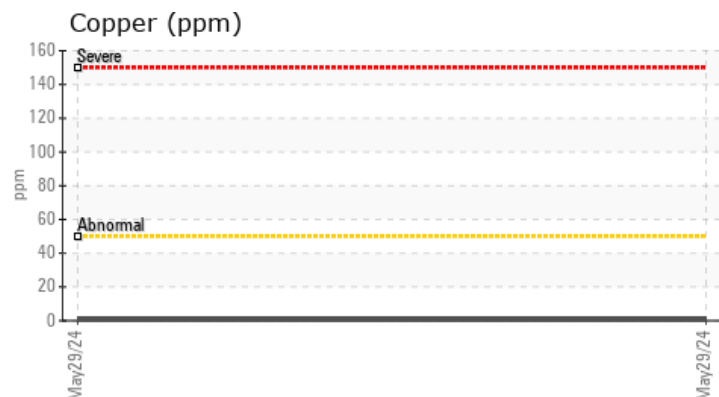
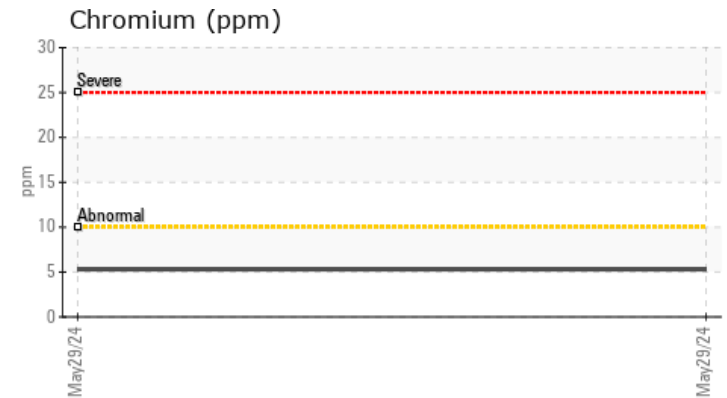
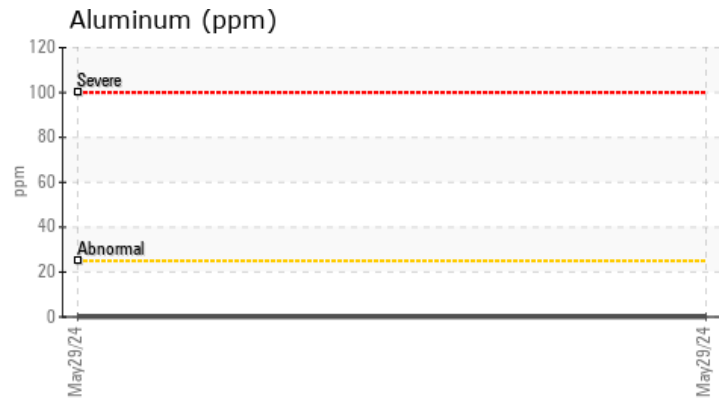
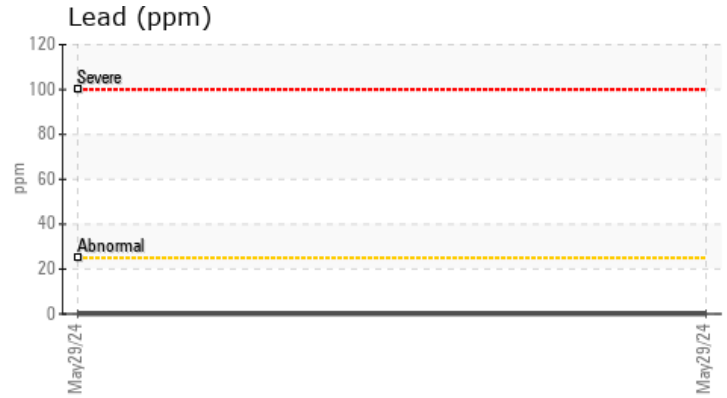
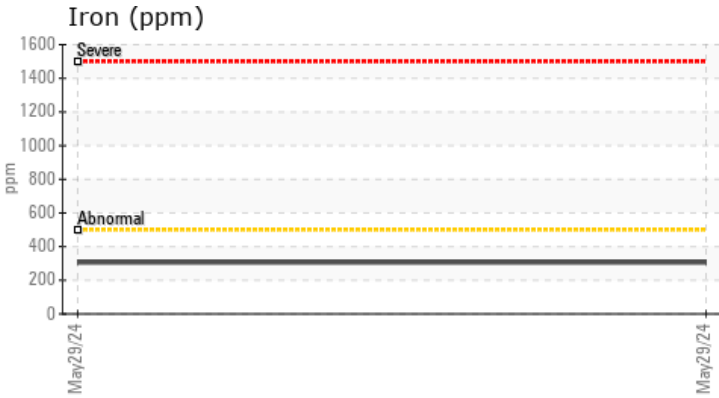
Depot: VOLVO0095
Unique No: 11061745
Signed: Don Baldrige
Report Date: 06 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

573874 HERC RENTALS VOLVO ECR145 316525 - FRONT RIGHT FINAL DRIVE



Sample No: VCP454768
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 573874 HERC RENTALS



SAMPLE INFORMATION

Sample Number	VCP454768	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 DAVIE, FL
 US 33314

Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 40°C	cSt	█ 142	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 350	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	▲ 27	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 7	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 23	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 35	---	---	---
Phosphorus	ppm	█ 317	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 0	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The tin level is abnormal. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0095
Unique No: 11061746
Signed: Don Baldrige
Report Date: 06 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

