



CONSTRUCTION EQUIPMENT

HERC VOLVO A30G 753394 - DIESEL ENGINE



Sample No: VCP449698
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: HERC



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



SAMPLE INFORMATION

Sample Number	VCP449698	VCP431641	---	---
Sample Date	20 May 2024	19 Oct 2023	---	---
Machine Hours	1120	5132	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ATTENTION	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.1	10.6	---	---
Base Number (BN)	mg KOH/g	7.2	7.4	---	---
Oxidation (PA)	%	77	53	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.7	---	---
Nitration (PA)	%	80	74	---	---
Sulfation (PA)	%	61	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.9	---	---
Silicon	ppm	12	5	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	3	2	---	---



WEAR METALS

Iron	ppm	23	22	---	---
Copper	ppm	159	7	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	2	1	---	---
Aluminum	ppm	2	5	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	46	61	---	---
Nickel	ppm	8	2	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	3	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1886	1432	---	---
Magnesium	ppm	402	841	---	---
Zinc	ppm	1155	1091	---	---
Phosphorus	ppm	985	868	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	25	18	---	---

Diagnosis

Oil and filter 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 copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 11050443
Signed: Don Baldrige
Report Date: 31 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

