



CONSTRUCTION EQUIPMENT

715674 HERCULES - DIESEL ENGINE



Sample No: VCP447775
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715674 HERCULES



SAMPLE INFORMATION

Sample Number	VCP447775	VCP348226	VCP320750	---
Sample Date	29 May 2024	15 Feb 2022	14 Sep 2021	---
Machine Hours	9553	3960	3465	---
Oil Hours	500	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.6	---
Base Number (BN)	mg KOH/g	2.8	10.3	---	---
Oxidation (PA)	%	89	66	81	---

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. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.6	0.2	0.3	---
Nitration (PA)	%	103	62	66	---
Sulfation (PA)	%	84	57	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	4	4	---
Sodium	ppm	6	2	2	---
Potassium	ppm	2	1	0	---



WEAR METALS

Iron	ppm	34	9	14	---
Copper	ppm	4	2	3	---
Lead	ppm	7	1	<1	---
Tin	ppm	1	1	<1	---
Aluminum	ppm	2	1	2	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	3	52	44	---
Nickel	ppm	<1	1	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	2375	1339	1627	---
Magnesium	ppm	39	907	527	---
Zinc	ppm	1100	1281	1185	---
Phosphorus	ppm	901	1090	931	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	17	42	---

Depot: VOLVO2990
Unique No: 11071693
Signed: Sean Felton
Report Date: 12 Jun 2024



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GRAPHS

