



CONSTRUCTION EQUIPMENT

SWA289046 DOCF VOLVO L70H 622155 - DIESEL ENGINE



Sample No: VCP425272
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA289046 DOCF



SAMPLE INFORMATION

Sample Number	VCP425272	VCP327915	---	---
Sample Date	20 Jun 2023	18 Oct 2021	---	---
Machine Hours	6109	4974	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	13.8	15.2	---	---
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	83	97	---	---

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.



CONTAMINATION

Soot %	%	0.3	0.6	---	---
Nitration (PA)	%	78	103	---	---
Sulfation (PA)	%	61	73	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	11	24	---	---
Sodium	ppm	4	4	---	---
Potassium	ppm	4	10	---	---



WEAR METALS

Iron	ppm	21	86	---	---
Copper	ppm	4	7	---	---
Lead	ppm	1	3	---	---
Tin	ppm	1	0	---	---
Aluminum	ppm	7	24	---	---
Chromium	ppm	2	6	---	---
Molybdenum	ppm	36	28	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1907	2212	---	---
Magnesium	ppm	434	347	---	---
Zinc	ppm	1240	1074	---	---
Phosphorus	ppm	1004	904	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	57	84	---	---

Depot: VOLVO0093
Unique No: 10535825
Signed: Wes Davis
Report Date: 30 Jun 2023



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GRAPHS

