



CONSTRUCTION EQUIPMENT

702529 BULK EXPRESS SENNEBOGEN 821 821.0.2274 - DIESEL ENGINE



Sample No: VCP449827
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 702529 BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP449827	VCP364814	VCP367844	---
Sample Date	03 May 2024	31 Oct 2022	25 Oct 2022	---
Machine Hours	10306	6330	6327	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
9601 BOGGY CREEK RD
ORLANDO, FL
US 32824
Contact: Robert LaPlante
robert.laplante@altg.com
T: (407)508-9736
F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.9	13.1	---
Base Number (BN)	mg KOH/g	7.8	11.7	12.3	---
Oxidation (PA)	%	101	82	82	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.5	0.1	0.1	---
Nitration (PA)	%	73	65	64	---
Sulfation (PA)	%	67	60	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	3.2	<1.0	<1.0	---
Silicon	ppm	31	6	6	---
Sodium	ppm	<1	<1	<1	---
Potassium	ppm	1	4	2	---



WEAR METALS

Iron	ppm	14	32	29	---
Copper	ppm	1	2	1	---
Lead	ppm	<1	0	0	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	4	3	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	40	41	38	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1641	1430	1444	---
Magnesium	ppm	502	735	749	---
Zinc	ppm	1116	870	820	---
Phosphorus	ppm	898	719	703	---
Barium	ppm	0	2	0	---
Boron	ppm	36	131	142	---

Depot: VOLVO0096
Unique No: 11018535
Signed: Don Baldrige
Report Date: 13 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

