



CONSTRUCTION EQUIPMENT

607580 SENNEBOGEN 840 2345 - DIESEL ENGINE



Sample No: VCP429496
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607580



SAMPLE INFORMATION

Sample Number	VCP429496	VCP413032	VCP421766	VCP380846
Sample Date	11 Oct 2023	21 Jun 2023	03 Apr 2023	13 Dec 2022
Machine Hours	2072	1554	1029	540
Oil Hours	500	500	500	540
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
 keith.hall@fpt1.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	12.9	12.7	▲ 11.1
Base Number (BN)	mg KOH/g	7.7	9.1	8.7	8.2
Oxidation (PA)	%	57	71	67	76

CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	67	76	71	86
Sulfation (PA)	%	51	56	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	▲ 2.2
Silicon	ppm	5	2	6	15
Sodium	ppm	2	1	4	1
Potassium	ppm	16	10	20	23

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.

WEAR METALS

Iron	ppm	7	8	24	21
Copper	ppm	1	<1	4	18
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	7	<1	7	7
Chromium	ppm	<1	0	1	<1
Molybdenum	ppm	65	60	93	69
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	3
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	1	5
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1680	1087	1717	1933
Magnesium	ppm	333	991	1438	350
Zinc	ppm	1081	1323	1971	1247
Phosphorus	ppm	902	1046	1561	1026
Barium	ppm	0	14	0	4
Boron	ppm	47	0	8	67

Depot: FERDET
Unique No: 10698241
Signed: Wes Davis
Report Date: 17 Oct 2023



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GRAPHS

