



CONSTRUCTION EQUIPMENT

SENNEBOGEN 830 2567 - DIESEL ENGINE



Sample No: VCP401146
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP401146	VCP392942	VCP402798	VCP398303
Sample Date	14 Jul 2023	19 Jun 2023	22 Mar 2023	20 Dec 2022
Machine Hours	9054	8895	8211	7606
Oil Hours	0	500	500	800
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	14.6	13.8	13.5	13.4
Base Number (BN)	mg KOH/g	8.4	4.9	6.4	7.4
Oxidation (PA)	%	63	93	77	102

CONTAMINATION

Soot %	%	0.1	0.3	0.3	0.5
Nitration (PA)	%	54	89	88	104
Sulfation (PA)	%	53	69	62	74
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	6
Sodium	ppm	0	4	2	0
Potassium	ppm	2	2	2	5

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	10	18	15	35
Copper	ppm	2	1	2	3
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	3	4	7
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	61	93	95	71
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1141	2293	2268	1549
Magnesium	ppm	808	39	90	791
Zinc	ppm	1152	1309	1305	1360
Phosphorus	ppm	984	1042	1109	1095
Barium	ppm	0	0	2	0
Boron	ppm	<1	26	32	15

Depot: FERDET
Unique No: 10561127
Signed: Don Baldrige
Report Date: 18 Jul 2023



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GRAPHS

