



CONSTRUCTION EQUIPMENT

715284 SENNEBOGEN 840E 840.0.2242 - DIESEL ENGINE



Sample No: VCP446423
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715284



SAMPLE INFORMATION

Sample Number	VCP446423	VCP429174	VCP424311	VCP399383
Sample Date	10 May 2024	04 Oct 2023	22 May 2023	15 Feb 2023
Machine Hours	6378	5029	4381	3811
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE
 DETROIT, MI
 US 48207

Contact: KEITH HALL
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OIL CONDITION

Visc @ 100°C	cSt	10.3	13.0	13.3	12.8
Base Number (BN)	mg KOH/g	5.2	7.5	7.3	7.9
Oxidation (PA)	%	47	71	75	73

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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	53	77	78	78
Sulfation (PA)	%	45	56	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.3	<1.0	<1.0	<1.0
Silicon	ppm	5	3	4	2
Sodium	ppm	5	3	0	2
Potassium	ppm	5	8	3	6

WEAR METALS

Iron	ppm	17	25	14	13
Copper	ppm	4	2	2	1
Lead	ppm	3	<1	0	0
Tin	ppm	3	0	0	<1
Aluminum	ppm	4	10	1	2
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	42	57	59	59
Nickel	ppm	3	0	0	0
Titanium	ppm	2	0	0	0
Silver	ppm	3	0	0	0
Manganese	ppm	3	<1	<1	<1
Vanadium	ppm	2	0	0	0

ADDITIVES

Calcium	ppm	921	993	1074	1050
Magnesium	ppm	387	983	988	875
Zinc	ppm	871	1291	1232	1181
Phosphorus	ppm	730	978	1000	966
Barium	ppm	1	0	0	2
Boron	ppm	15	0	0	0

Depot: FERDET
Unique No: 11033701
Signed: Jonathan Hester
Report Date: 21 May 2024



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GRAPHS

