



CONSTRUCTION EQUIPMENT

687658 SENNEBOGEN 840E 2236 - DIESEL ENGINE



Sample No: VCP436393
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687658



SAMPLE INFORMATION

Sample Number	VCP436393	VCP452374	VCP411756	VCP382864
Sample Date	06 Apr 2024	05 Jan 2024	13 Jul 2023	02 Feb 2023
Machine Hours	9731	9040	7901	7183
Oil Hours	500	500	500	500
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
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	13.0	13.2
Base Number (BN)	mg KOH/g	8.4	6.2	5.8	7.7
Oxidation (PA)	%	72	85	83	82

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	77	86	83	84
Sulfation (PA)	%	55	62	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	6	3
Sodium	ppm	1	2	3	<1
Potassium	ppm	2	3	0	4



WEAR METALS

Iron	ppm	8	20	20	16
Copper	ppm	<1	5	2	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	55	61	86	63
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1021	1238	1784	1106
Magnesium	ppm	888	683	344	958
Zinc	ppm	1117	1108	1304	1293
Phosphorus	ppm	925	925	1047	1026
Barium	ppm	0	0	0	0
Boron	ppm	3	34	145	0

Depot: FERDET
Unique No: 10981648
Signed: Jonathan Hester
Report Date: 19 Apr 2024



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GRAPHS

