



CONSTRUCTION EQUIPMENT

595067 FERROUS SENNEBOGEN 840 840.0.2244 - DIESEL ENGINE



Sample No: VCP416929
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595067 FERROUS



SAMPLE INFORMATION

Sample Number	VCP416929	VCP412582	VCP410709	VCP392513
Sample Date	01 Sep 2023	03 Aug 2023	18 Apr 2023	13 Jan 2023
Machine Hours	6206	5960	5184	4555
Oil Hours	500	500	0	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
 keith.hall@fpt1.com

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.5	13.1	13.3
Base Number (BN)	mg KOH/g	7.0	7.1	5.2	4.8
Oxidation (PA)	%	56	82	80	91

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

Soot %	%	0.1	0.3	0.2	0.3
Nitration (PA)	%	73	92	89	95
Sulfation (PA)	%	51	62	63	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	0	4
Sodium	ppm	2	2	2	2
Potassium	ppm	4	11	4	7



WEAR METALS

Iron	ppm	5	19	16	27
Copper	ppm	<1	1	1	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	10	5	4	6
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	60	65	61	28
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2137	1315	2418	2182
Magnesium	ppm	103	984	34	78
Zinc	ppm	1279	1350	1328	1221
Phosphorus	ppm	1039	1064	1067	959
Barium	ppm	0	0	0	0
Boron	ppm	54	2	26	34

Depot: FERDET
Unique No: 10644720
Signed: Wes Davis
Report Date: 14 Sep 2023



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GRAPHS

