

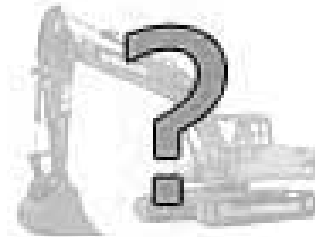


CONSTRUCTION EQUIPMENT

702355 SENNEBOGEN 840 2362 - DIESEL ENGINE



Sample No: VCP455273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702355



SAMPLE INFORMATION

Sample Number	VCP455273	VCP453969	VCP445992	VCP411758
Sample Date	24 Apr 2024	20 Mar 2024	27 Feb 2024	13 Jul 2023
Machine Hours	3337	3057	2863	1486
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	ABNORMAL	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	12.3	12.7	11.9	13.4
Base Number (BN)	mg KOH/g	7.1	9.6	8.5	8.6
Oxidation (PA)	%	57	62	80	67

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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 %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	73	56	82	75
Sulfation (PA)	%	51	52	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	3.1	1.7	4.9	<1.0
Silicon	ppm	3	2	4	4
Sodium	ppm	<1	2	<1	2
Potassium	ppm	2	3	7	8

WEAR METALS

Iron	ppm	<1	3	15	8
Copper	ppm	0	<1	2	1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	3	1	4	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	82	56	64	71
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	<1	<1

ADDITIVES

Calcium	ppm	2097	1108	1198	1543
Magnesium	ppm	75	997	957	766
Zinc	ppm	1162	1339	1261	1328
Phosphorus	ppm	978	904	1076	1076
Barium	ppm	0	0	0	0
Boron	ppm	59	1	4	24

Depot: FERDET
Unique No: 11007259
Signed: Wes Davis
Report Date: 07 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

