



CONSTRUCTION EQUIPMENT

715290 SENNEBOGEN 840 2364 - DIESEL ENGINE



Sample No: VCP454475
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715290



SAMPLE INFORMATION

Sample Number	VCP454475	VCP442442	VCP431914	VCP426589
Sample Date	15 May 2024	20 Feb 2024	10 Oct 2023	19 Jun 2023
Machine Hours	3873	3131	2195	1407
Oil Hours	500	1000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	MARGINAL

FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
 keith.hall@fpt1.com



OIL CONDITION

Visc @ 100°C	cSt	12.8	11.6	12.9	12.8
Base Number (BN)	mg KOH/g	5.3	4.8	5.5	5.8
Oxidation (PA)	%	79	94	79	79

T:
F:

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 %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	88	96	93	85
Sulfation (PA)	%	61	67	63	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.0	7.1	<1.0	2.0
Silicon	ppm	5	6	4	5
Sodium	ppm	3	2	3	2
Potassium	ppm	3	8	22	12



WEAR METALS

Iron	ppm	16	36	17	15
Copper	ppm	3	3	1	3
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	1	0	<1
Aluminum	ppm	4	5	8	5
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	64	64	60	63
Nickel	ppm	0	1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2230	2041	2192	2227
Magnesium	ppm	46	42	42	48
Zinc	ppm	1257	1110	1099	1225
Phosphorus	ppm	1040	898	981	972
Barium	ppm	0	1	0	0
Boron	ppm	39	37	27	37

Depot: FERDET
Unique No: 11042537
Signed: Wes Davis
Report Date: 24 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

