



CONSTRUCTION EQUIPMENT

647162 DETROIT IRON SENNEBOGEN 825M 825.0.1261 - DIESEL ENGINE



Sample No: VCP452372
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 647162 DETROIT IRON



SAMPLE INFORMATION

Sample Number	VCP452372	VCP107494	VCP092188	VCP085579
Sample Date	04 Jan 2024	28 Jun 2010	05 Aug 2009	14 May 2009
Machine Hours	22072	4125	1969	1445
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
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OIL CONDITION

Visc @ 100°C	cSt	14.4	18.89	16.15	17.00
Base Number (BN)	mg KOH/g	7.6	---	---	---
Oxidation (PA)	%	84	72	56	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.5	0.7	0.3	0.6
Nitration (PA)	%	99	75	58	83
Sulfation (PA)	%	72	58	53	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	5	7
Sodium	ppm	3	6	2	4
Potassium	ppm	6	2	8	8



WEAR METALS

Iron	ppm	30	58	32	100
Copper	ppm	2	16	33	275
Lead	ppm	<1	10	4	6
Tin	ppm	0	0	2	2
Aluminum	ppm	4	4	3	7
Chromium	ppm	2	2	2	6
Molybdenum	ppm	16	22	29	0
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	3	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2601	2594	2115	3245
Magnesium	ppm	55	350	474	11
Zinc	ppm	1338	1461	1257	1578
Phosphorus	ppm	1045	1162	992	1188
Barium	ppm	0	<1	<1	0
Boron	ppm	89	35	26	27

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 acceptable for the time in service.

Depot: VOLVO2990
Unique No: 10845938
Signed: Sean Felton
Report Date: 26 Jan 2024



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GRAPHS

