



CONSTRUCTION EQUIPMENT

M0700016 FORD F750 8399 - DIESEL ENGINE



Sample No: VCP311929
Oil Type: MOBIL 15W40
Job No: M07000016



SAMPLE INFORMATION

Sample Number	VCP311929	VCP338042	VCP407789	VCP327842
Sample Date	25 Oct 2023	18 Aug 2023	09 Aug 2023	07 Apr 2023
Machine Hours	11620	11431	11386	11130
Oil Hours	500	50	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.9	13.9	13.9
Base Number (BN)	mg KOH/g	8.9	8.4	8.2	7.5
Oxidation (PA)	%	73	62	77	76



CONTAMINATION

Soot %	%	0.5	0.2	0.9	0.6
Nitration (PA)	%	82	58	97	87
Sulfation (PA)	%	56	52	59	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	12	32	6
Sodium	ppm	26	9	39	11
Potassium	ppm	36	14	56	15

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.



WEAR METALS

Iron	ppm	31	11	45	19
Copper	ppm	1	<1	3	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	6	2	11	4
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	52	52	60	51
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1257	1326	1351	1280
Magnesium	ppm	732	649	720	797
Zinc	ppm	907	893	998	977
Phosphorus	ppm	752	734	811	777
Barium	ppm	0	0	0	0
Boron	ppm	30	46	29	31

Depot: VOLVO8882
Unique No: 10737062
Signed: Don Baldrige
Report Date: 13 Nov 2023



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GRAPHS

