



CONSTRUCTION EQUIPMENT

A12801 - DIESEL ENGINE



Sample No: VCP413706
Oil Type: MOBIL 15W40
Job No: A12801



SAMPLE INFORMATION

Sample Number	VCP413706	VCP449562	VCP443401	VCP398896
Sample Date	11 Jun 2024	24 Apr 2024	29 Feb 2024	17 Feb 2023
Machine Hours	5040	4805	4493	2535
Oil Hours	500	0	500	500
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	SEVERE	SEVERE	NORMAL

WASTE MANAGEMENT - TELFORD
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OIL CONDITION

Visc @ 100°C	cSt	13.3	4.8	6.4	13.2
Base Number (BN)	mg KOH/g	8.7	4.6	5.6	8.1
Oxidation (PA)	%	54	53	52	54

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0	0.1
Nitration (PA)	%	44	54	46	61
Sulfation (PA)	%	49	45	49	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.3	46.1	35.2	<1.0
Silicon	ppm	6	4	4	5
Sodium	ppm	2	0	0	0
Potassium	ppm	4	2	0	2

WEAR METALS

Iron	ppm	0	2	4	3
Copper	ppm	0	1	<1	2
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	32	8	69	47
Nickel	ppm	<1	<1	0	0
Titanium	ppm	5	15	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1555	1008	854	1407
Magnesium	ppm	544	129	466	612
Zinc	ppm	1153	560	579	1109
Phosphorus	ppm	969	485	524	975
Barium	ppm	0	1	0	0
Boron	ppm	33	29	69	12

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

Depot: WASTEL
Unique No: 11088259
Signed: Wes Davis
Report Date: 24 Jun 2024

VOLVO GRAPHS

