



CONSTRUCTION EQUIPMENT

25400 VOLVO A40G 352464 - DIESEL ENGINE



Sample No: VCP445366
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25400



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
 matt.mitcham@ascendummachinery.com
 T:
 F: (843)414-1129



SAMPLE INFORMATION

Sample Number	VCP445366	VCP433699	VCP435176	VCP407057
Sample Date	19 Apr 2024	14 Dec 2023	09 Sep 2023	25 May 2023
Machine Hours	5177	4571	3992	3349
Oil Hours	0	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.5	12.1	12.7
Base Number (BN)	mg KOH/g	9.0	9.2	9.0	6.0
Oxidation (PA)	%	78	80	70	68



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	66	66	71	77
Sulfation (PA)	%	58	60	56	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.2	<1.0
Silicon	ppm	5	6	6	4
Sodium	ppm	1	1	3	3
Potassium	ppm	2	0	3	2



WEAR METALS

Iron	ppm	6	4	8	14
Copper	ppm	1	1	2	5
Lead	ppm	<1	0	1	1
Tin	ppm	<1	<1	2	2
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	44	40	41	64
Nickel	ppm	<1	0	<1	2
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1631	1636	1973	1179
Magnesium	ppm	493	522	537	941
Zinc	ppm	1117	1123	1198	1379
Phosphorus	ppm	966	899	972	1081
Barium	ppm	0	0	0	0
Boron	ppm	44	37	30	6

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.

Depot: VOLVO3387
Unique No: 11004798
Signed: Wes Davis
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

