



CONSTRUCTION EQUIPMENT

SWA390774 WM HODGKIN CATERPILLAR 972H A7D00854 - DIESEL ENGINE



Sample No: VCP395695
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA390774 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP395695	VCP05827228	VCP419982	VCP369262
Sample Date	18 Oct 2023	10 Apr 2023	10 Mar 2023	16 Feb 2023
Machine Hours	25364	25228	24863	24573
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 14.8	█ 13.8	█ 14.3
Base Number (BN)	mg KOH/g	█ 7.8	█ 8.0	█ 9.0	█ 9.2
Oxidation (PA)	%	86	61	68	59

CONTAMINATION

Soot %	%	█ 0.7	█ 0.5	█ 0.5	█ 0.3
Nitration (PA)	%	76	58	68	58
Sulfation (PA)	%	62	52	59	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	▲ 45	█ 3	█ 5	█ 3
Sodium	ppm	█ 2	█ 1	█ 3	█ 0
Potassium	ppm	█ 1	█ 0	█ <1	█ 1

WEAR METALS

Iron	ppm	█ 24	█ 12	█ 17	█ 8
Copper	ppm	█ 5	█ 3	█ 4	█ 2
Lead	ppm	█ 1	█ 0	█ <1	█ <1
Tin	ppm	█ 0	█ 0	█ <1	█ <1
Aluminum	ppm	█ 3	█ <1	█ 1	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 59	█ 50	█ 58	█ 68
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	█ <1	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ 0	█ <1	█ <1	█ <1
Vanadium	ppm	█ <1	█ 0	█ <1	█ 0

ADDITIVES

Calcium	ppm	█ 1097	█ 1023	█ 1169	█ 1180
Magnesium	ppm	█ 909	█ 773	█ 830	█ 819
Zinc	ppm	█ 1255	█ 971	█ 1139	█ 1187
Phosphorus	ppm	█ 1027	█ 855	█ 955	█ 992
Barium	ppm	█ 7	█ 0	█ 2	█ <1
Boron	ppm	█ 5	█ 6	█ 10	█ 6

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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: VOLVO8885
Unique No: 10737819
Signed: Don Baldrige
Report Date: 14 Nov 2023



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VOLVO GRAPHS

