



CONSTRUCTION EQUIPMENT

714985 VOLVO L220H 2061 - DIESEL ENGINE



Sample No: VCP452792
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 714985



SAMPLE INFORMATION

Sample Number	VCP452792	VCP440685	VCP442770	VCP424312
Sample Date	13 May 2024	22 Feb 2024	26 Nov 2023	25 May 2023
Machine Hours	17096	16584	16027	15411
Oil Hours	500	500	500	721
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.5	13.6	13.3	13.4
Base Number (BN)	mg KOH/g	6.2	6.4	6.3	9.3
Oxidation (PA)	%	55	54	57	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	69	71	74	66
Sulfation (PA)	%	52	52	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	2	5
Sodium	ppm	4	2	2	<1
Potassium	ppm	4	2	<1	0



WEAR METALS

Iron	ppm	5	4	0	5
Copper	ppm	3	<1	0	<1
Lead	ppm	3	<1	0	0
Tin	ppm	3	<1	<1	0
Aluminum	ppm	5	3	2	0
Chromium	ppm	2	<1	0	<1
Molybdenum	ppm	76	75	66	49
Nickel	ppm	2	1	0	0
Titanium	ppm	2	<1	0	0
Silver	ppm	3	0	0	0
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	2	<1	0	0



ADDITIVES

Calcium	ppm	2072	2044	1967	1784
Magnesium	ppm	72	66	97	496
Zinc	ppm	1139	1147	1176	1205
Phosphorus	ppm	956	926	978	984
Barium	ppm	1	1	0	0
Boron	ppm	59	55	47	53

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: FERDET
Unique No: 11033705
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

