



CONSTRUCTION EQUIPMENT

714993 VOLVO L220H 3372 - DIESEL ENGINE



Sample No: VCP452793
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 714993



SAMPLE INFORMATION

Sample Number	VCP452793	VCP415304	VCP408137	VCP382851
Sample Date	13 May 2024	15 Aug 2023	12 May 2023	01 Feb 2023
Machine Hours	3441	2021	1558	1039
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.1	14.0	13.5
Base Number (BN)	mg KOH/g	7.0	8.8	9.3	8.1
Oxidation (PA)	%	51	53	57	59

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	63	50	54	62
Sulfation (PA)	%	48	49	52	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	3	4	7
Sodium	ppm	4	1	1	<1
Potassium	ppm	5	3	<1	2



WEAR METALS

Iron	ppm	8	5	5	9
Copper	ppm	3	3	14	72
Lead	ppm	3	<1	0	<1
Tin	ppm	3	<1	<1	2
Aluminum	ppm	5	<1	<1	1
Chromium	ppm	2	0	0	<1
Molybdenum	ppm	74	59	59	64
Nickel	ppm	3	<1	0	2
Titanium	ppm	2	<1	0	0
Silver	ppm	3	0	0	0
Manganese	ppm	3	<1	<1	<1
Vanadium	ppm	2	<1	0	<1



ADDITIVES

Calcium	ppm	1965	1046	1094	1170
Magnesium	ppm	168	997	973	848
Zinc	ppm	1130	1223	1268	1235
Phosphorus	ppm	964	998	1030	1023
Barium	ppm	1	0	0	0
Boron	ppm	66	0	<1	3

Depot: FERDET
Unique No: 11033684
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

