



CONSTRUCTION EQUIPMENT

51329 JAMES SHIRLEY VOLVO ECR145EL 311661 - DIESEL ENGINE



Sample No: VCP424203
Oil Type: NOT GIVEN
Job No: 51329 JAMES SHIRLEY



SAMPLE INFORMATION

Sample Number	VCP424203	VCP353778	VCP294768	---
Sample Date	08 Aug 2023	18 Jul 2022	01 Jun 2021	---
Machine Hours	2886	2290	1453	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

JAMES A SHIRLEY CONSTRUCTION INC
 59160 MESA DRIVE
 YUCCA VALLEY, CA
 US 92284-1373
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.3	12.6	---
Base Number (BN)	mg KOH/g	10.1	7.7	---	---
Oxidation (PA)	%	88	69	30	---

T: (760)228-0447
 F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.



CONTAMINATION

Soot %	%	0.4	0.4	0.1	---
Nitration (PA)	%	68	69	49	---
Sulfation (PA)	%	63	62	42	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	6	7	---
Sodium	ppm	4	2	2	---
Potassium	ppm	1	<1	<1	---



WEAR METALS

Iron	ppm	18	14	14	---
Copper	ppm	2	2	2	---
Lead	ppm	<1	<1	0	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	8	4	6	---
Chromium	ppm	1	<1	1	---
Molybdenum	ppm	45	76	50	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1771	1525	1067	---
Magnesium	ppm	528	335	817	---
Zinc	ppm	1214	1193	1044	---
Phosphorus	ppm	998	924	926	---
Barium	ppm	0	0	0	---
Boron	ppm	48	269	13	---

Depot: JAMYUC
Unique No: 10602581
Signed: Wes Davis
Report Date: 14 Aug 2023



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GRAPHS

