



CONSTRUCTION EQUIPMENT

715679 VOLVO L90G 617477 - DIESEL ENGINE



Sample No: VCP452770
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715679



SAMPLE INFORMATION

Sample Number	VCP452770	VCP366390	VCP151045	---
Sample Date	16 May 2024	13 Jun 2022	05 Jun 2017	---
Machine Hours	14228	12400	5829	---
Oil Hours	500	12400	150	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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	13.6	13.9	13.78	---
Base Number (BN)	mg KOH/g	9.0	8.2	---	---
Oxidation (PA)	%	57	54	44	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.1	---
Nitration (PA)	%	61	65	50	---
Sulfation (PA)	%	50	51	47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	2	---
Sodium	ppm	18	20	2	---
Potassium	ppm	2	3	0	---

WEAR METALS

Iron	ppm	14	17	4	---
Copper	ppm	2	<1	<1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	10	14	4	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	55	66	58	---
Nickel	ppm	0	2	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1008	2026	996	---
Magnesium	ppm	924	193	920	---
Zinc	ppm	1206	1274	1073	---
Phosphorus	ppm	1016	1033	941	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	79	4	---

Depot: FERDET
Unique No: 11042536
Signed: Jonathan Hester
Report Date: 23 May 2024



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GRAPHS

