



CONSTRUCTION EQUIPMENT

RYAN TRAVIS VOLVO 631332 - DIESEL ENGINE



Sample No: VCP446303
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446303	VCP443912	VCP440642	VCP426190
Sample Date	08 Jul 2024	17 Apr 2024	13 Dec 2023	06 Sep 2023
Machine Hours	10874	10389	9794	9270
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.4	13.3	13.4
Base Number (BN)	mg KOH/g	10.0	9.8	9.9	10.4
Oxidation (PA)	%	78	78	80	80

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	NEG
Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	65	68	63	68
Sulfation (PA)	%	61	58	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	8	4	6
Sodium	ppm	2	3	2	0
Potassium	ppm	<1	2	1	2



WEAR METALS

Iron	ppm	64	32	10	16
Copper	ppm	3	3	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	5	6	2	0
Chromium	ppm	2	<1	0	<1
Molybdenum	ppm	51	45	33	39
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	1	14
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1697	1668	1789	1624
Magnesium	ppm	541	562	444	476
Zinc	ppm	1123	1163	1210	1128
Phosphorus	ppm	961	1006	910	933
Barium	ppm	0	0	0	1
Boron	ppm	43	48	47	32

Depot: RIPTAM
Unique No: 11124261
Signed: Wes Davis
Report Date: 15 Jul 2024



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VOLVO GRAPHS

