



CONSTRUCTION EQUIPMENT

VOLVO A30F 82299 - DIESEL ENGINE



Sample No: VCP454423
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454423	VCP350748	VCP272519	VCP257270
Sample Date	08 Feb 2024	20 Jan 2022	30 Mar 2020	10 Sep 2019
Machine Hours	0	10461	10028	9481
Oil Hours	0	1500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	ATTENTION	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
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 Contact: PM Services
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OIL CONDITION

Visc @ 100°C	cSt	10.0	13.2	10.8	12.1
Base Number (BN)	mg KOH/g	6.6	11.3	---	---
Oxidation (PA)	%	59	81	78	63

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.7	0.4	0.6
Nitration (PA)	%	78	92	75	64
Sulfation (PA)	%	52	63	58	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	8.7	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	6
Sodium	ppm	1	2	3	2
Potassium	ppm	<1	2	5	<1



WEAR METALS

Iron	ppm	16	38	15	8
Copper	ppm	3	3	5	2
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	2	0	<1
Aluminum	ppm	8	15	9	5
Chromium	ppm	<1	4	<1	<1
Molybdenum	ppm	48	38	39	47
Nickel	ppm	8	<1	1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2008	1624	1691	1260
Magnesium	ppm	179	516	554	698
Zinc	ppm	1147	1040	852	981
Phosphorus	ppm	1014	901	733	856
Barium	ppm	0	0	0	0
Boron	ppm	70	25	18	7

Depot: RIPTAM
Unique No: 10874371
Signed: Wes Davis
Report Date: 14 Feb 2024



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GRAPHS

