

# **OIL ANALYSIS REPORT**



FUEL





# [W/O 10988] VOLVO A30F 82261

Diesel Engine

DIESEL ENGINE OIL SAE 30 (10 GAL)

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

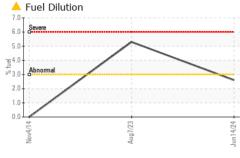
### **Fluid Condition**

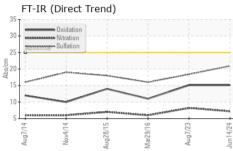
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

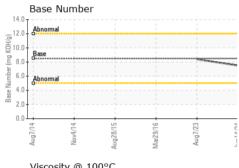
AL 30 (10 GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002117	VCP413941	VCP177035
Sample Date		Client Info		14 Jun 2024	07 Aug 2023	29 Mar 2016
Machine Age	hrs	Client Info		7694	7312	2101
Oil Age	hrs	Client Info		382	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	28	18	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	2	<1	2
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	16	8	3
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m		5	6	20
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Antimony	ppm	ASTM D5185m	>20			0
Vanadium		ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	390	63	21
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	97	70	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	534	1011	699
Calcium	ppm	ASTM D5185m	3000	1673	1469	1544
Phosphorus	ppm	ASTM D5185m	1150	1229	1061	937
Zinc	ppm	ASTM D5185m	1350	1497	1225	1041
Sulfur	ppm	ASTM D5185m	4250	3834	3545	3177
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	18	9	5
Sodium	ppm	ASTM D5185m	>75	2	3	4
Potassium	ppm	ASTM D5185m	>20	4	4	1
Fuel	%	ASTM D3524	>3.0	<b>2.6</b>	<b>△</b> 5.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.2	6.
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	18.4	16.
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.1	11.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	8.4	
-acc : (DIN)	my normy	. 10 1 111 0 000	0.0		U. T	

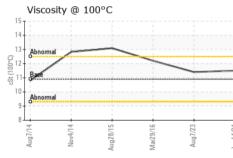


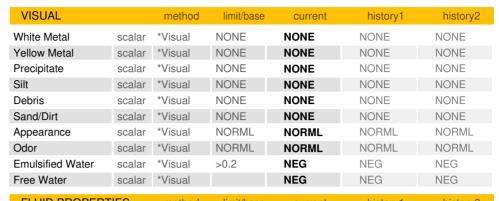
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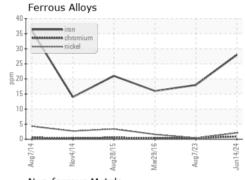


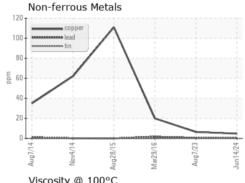


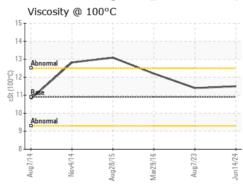


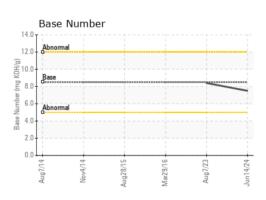
FLUID PROPERTIES		metnoa	limit/base	current	nistory i	nistory2	
Visc @ 100°C	cSt	ASTM D445	10.9	11.5	11.4	12.2	

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: ML0002117 Lab Number : 06216430

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11089294

: 20 Jun 2024 : 24 Jun 2024 Diagnosed

: 24 Jun 2024 - Sean Felton Test Package : CONST ( Additional Tests: PercentFuel, TBN )

US 21227 Contact: MARK CIULLA mciulla@mcclung-logan.com T: (410)242-6500

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: VOLVO0150 [WUSCAR] 06216430 (Generated: 06/24/2024 15:44:57) Rev: 1

Submitted By: DELANO GREGORY

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