

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



[W/O 11076] VOLVO A30G 753127 Component Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (10 GAL)

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SAMPLE INFORM	NATION	method	limit/base	current	history1	history
Sample Number		Client Info		ML0002062	ML0001342	VCP447913
Sample Date		Client Info		08 Jul 2024	06 May 2024	18 Jan 202
Machine Age	hrs	Client Info		1895	1636	1291
Oil Age	hrs	Client Info		259	1636	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>200	4	5	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	2
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	1	3	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>20	<1	2	2
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	2.5	93	407	412
Barium	ppm	ASTM D5185m	0.0	0	2	<1
Molybdenum	ppm	ASTM D5185m	0.7	81	115	87
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	500	556	417
Calcium	ppm	ASTM D5185m	2057	1663	1489	1419
Phosphorus	ppm	ASTM D5185m	935	871	895	1087
Zinc	ppm	ASTM D5185m	1223	967	1005	1291
Sulfur	ppm	ASTM D5185m	4079	3029	3056	3458
CONTAMINANTS	;	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>20	4	6	4
Sodium	ppm	ASTM D5185m		3	0	1
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		mounou				
INFRA-RED Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	% Abs/cm				0.1 6.7	0.1 5.9
Soot %		*ASTM D7844	>3 >20	0.2		
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>3 >20	0.2 6.5 21.3	6.7	5.9 20.9
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.2 6.5 21.3	6.7 21.9	5.9

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Area

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

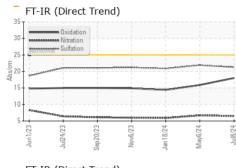
Fluid Condition

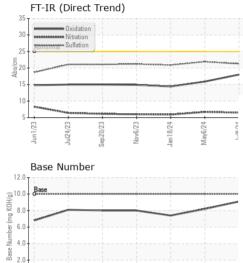
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



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50/9/m

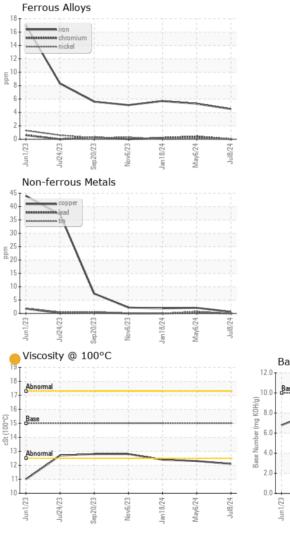
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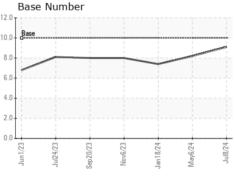
Mav6/74

174/73

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		method	limit/base	ourropt	history1	biotory?
FLUID FROFERT	IE3	method	iiiiii/base	current	nistory i	history2
Visc @ 100°C	cSt	ASTM D445	15.0	e 12.1	12.3	12.4

GRAPHS





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PLEASANT EXCAVATING COMPANY INC Sample No. : ML0002062 Received 24024 FREDERICK ROAD : 11 Jul 2024 Lab Number : 06234273 Tested : 12 Jul 2024 CLARKSBURG, MD Unique Number : 11123107 Diagnosed : 14 Jul 2024 - Don Baldridge US 20871 Test Package : CONST (Additional Tests: TBN) Contact: H TRENT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. HTRENT@PLEASANTS.ORG * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)252-5635 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: DELANO GREGORY

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