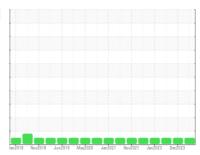


OIL ANALYSIS REPORT

Sample Rating Trend







65

VOLVO A35G 342028

Component

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

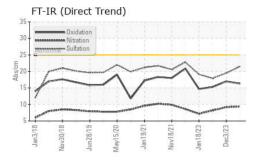
Fluid Condition

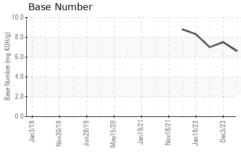
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

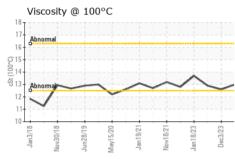
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		ML0001950	VCP409420	VCP338049
Sample Date		Client Info		09 May 2024	03 Dec 2023	12 Apr 2023
Machine Age	hrs	Client Info		8454	8454	8014
Oil Age	hrs	Client Info		684	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	17	15	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>20	2	2	1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	29	50
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		55	51	56
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		681	713	623
Calcium	ppm	ASTM D5185m		1515	1190	1469
Phosphorus	ppm	ASTM D5185m		788	671	809
Zinc	ppm	ASTM D5185m		973	882	994
Sulfur	ppm	ASTM D5185m		3149	3228	3320
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	4	3
Sodium	ppm	ASTM D5185m		59	23	15
Potassium	ppm	ASTM D5185m	>20	18	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.2	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.5	17.9
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.0	15.3

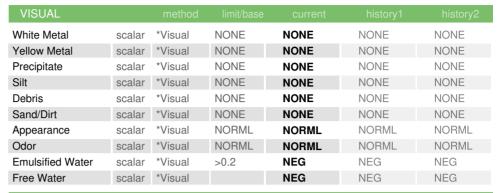


OIL ANALYSIS REPORT



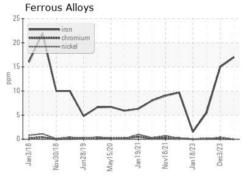


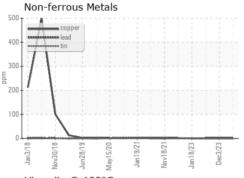


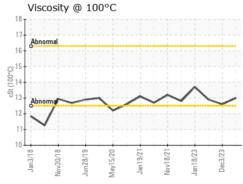


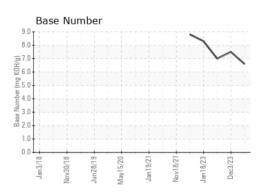
PLUID PHOPENIIES		method		riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	13.0	12.6	12.9

GRAPHS













Report Id: VOLVO8882 [WUSCAR] 06178311 (Generated: 05/16/2024 16:09:43) Rev: 1

Laboratory Sample No.

: ML0001950 Lab Number : 06178311 Unique Number : 11029637

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 14 May 2024 : 14 May 2024

: 16 May 2024 - Sean Felton

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND 1345 MOUNTAIN ROAD GLEN ALLEN, VA

US 23060 Contact: KYLE RATLIFFE

F: (804)266-1611

Test Package : CONST (Additional Tests: TBN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

KRATLIFFE@MCCLUNG-LOGAN.COM

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

Submitted By: Service - Alex Anderson