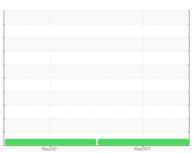


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









# **VOLVO A30G 740132**

Component
Rear Axle
Fluid
VOLVO WB 102 (--- 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 condition of the oil is acceptable for the time in service.

Sample Number   Client Info   ML0001744   VCP302718	L)			May2021	May2024		
Sample Date   Client Info   22 May 2024   18 May 2021	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   22 May 2024   18 May 2021	Sample Number		Client Info		ML0001744	VCP302718	
Machine Age   hrs   Client Info   0   3976	·						
Dil Age		hrs			-		
Containing   Con							
NORMAL   N	•	0			-		
Water         WC Method         >0.2         NEG         NEG	-						
WEAR METALS	CONTAMINATION	J	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.2	NEG	NEG	
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>900	215	369	
ASTM D5185m   ASTM D5185m   ASTM D5185m   ASTM D5185m   DO	Chromium	ppm	ASTM D5185m	>20	4	7	
Silver	Nickel	ppm	ASTM D5185m	>10	<1	2	
ASTM D5185m   STM D5185m   STM D5185m   ASTM D5185m   AS	Titanium	ppm	ASTM D5185m		<1	<1	
Lead	Silver	ppm	ASTM D5185m		0	0	
ASTM D5185m   STM D5185m   Ppm   ASTM D5185m   Ppm   ASTM D5185m   ASTM D5185m   Ppm   Ppm   ASTM D5185m   Ppm   Ppm   ASTM D5185m   Ppm   Ppm   ASTM D5185m   Ppm   Ppm   Ppm   ASTM D5185m   Ppm   Ppm   Ppm   Ppm   ASTM D518	Aluminum	ppm	ASTM D5185m	>30	3	<1	
Tin	_ead	ppm	ASTM D5185m	>50	1	0	
Antimony	Copper	ppm	ASTM D5185m	>150	4	6	
Vanadium         ppm         ASTM D5185m         <1         0	Tin	ppm	ASTM D5185m	>20	<1	<1	
ADDITIVES	Antimony	ppm	ASTM D5185m	>5		0	
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1	0	
Boron	Cadmium	ppm	ASTM D5185m		<1	0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1         <1            Manganese         ppm         ASTM D5185m         4         6            Magnesium         ppm         ASTM D5185m         13         0            Calcium         ppm         ASTM D5185m         3292         49            Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visua	Boron	ppm	ASTM D5185m		232	301	
Manganese         ppm         ASTM D5185m         4         6            Magnesium         ppm         ASTM D5185m         13         0            Calcium         ppm         ASTM D5185m         3292         49            Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         >20         1         0            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar	Barium	ppm	ASTM D5185m		8	0	
Magnesium         ppm         ASTM D5185m         13         0            Calcium         ppm         ASTM D5185m         3292         49            Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         >20         1         0            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scal	Molybdenum	ppm	ASTM D5185m		<1	<1	
Calcium         ppm         ASTM D5185m         3292         49            Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         >20         1         0            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Debris         sc	Manganese	ppm	ASTM D5185m		4	6	
Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         4         4            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE           Debris         scalar	Magnesium	ppm	ASTM D5185m		13	0	
Phosphorus         ppm         ASTM D5185m         1593         2315            Zinc         ppm         ASTM D5185m         1318         21            Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         4         4            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Sand/Dirt         scalar	Calcium	ppm	ASTM D5185m		3292	49	
Table   Tabl	Phosphorus					2315	
Sulfur         ppm         ASTM D5185m         10696         23455            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         14         5            Sodium         ppm         ASTM D5185m         >50         1         4         4            Potassium         ppm         ASTM D5185m         >20         1         0            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE         NONE            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORML			ASTM D5185m		1318	21	
Silicon	Sulfur		ASTM D5185m		10696	23455	
Sodium	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 0  VISUAL method limit/base current history1 history2  White Metal scalar *Visual NONE NONE MODER  Yellow Metal scalar *Visual NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE  Silt scalar *Visual NONE MODER NONE  Debris scalar *Visual NONE NONE NONE  Sand/Dirt scalar *Visual NONE NONE NONE  Appearance scalar *Visual NORML NORML NORML  Odor scalar *Visual NORML NORML NORML	Silicon	ppm	ASTM D5185m	>50	14	5	
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE MODER Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE MODER NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Sodium	ppm	ASTM D5185m		4	4	
White Metal scalar *Visual NONE NONE MODER Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE MODER NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Potassium	ppm	ASTM D5185m	>20	1	0	
Yellow Metal     scalar     *Visual     NONE     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE     NONE       Silt     scalar     *Visual     NONE     MODER     NONE        Debris     scalar     *Visual     NONE     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE MODER NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	White Metal	scalar	*Visual	NONE	NONE	MODER	
Silt scalar *Visual NONE MODER NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Precipitate	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Silt	scalar	*Visual	NONE	MODER	NONE	
Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML	Appearance	scalar	*Visual	NORML		NORML	
	• •	scalar	*Visual	NORML	NORML	NORML	
	Emulcified Water				NEG		

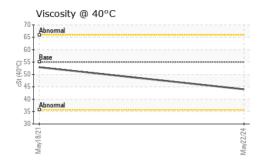
n: MAEE CLARK - V<u>O</u>LVO1023

NEG

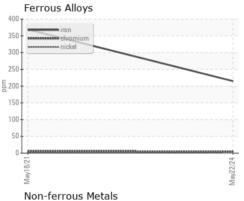
scalar \*Visual

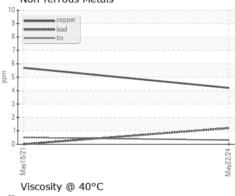


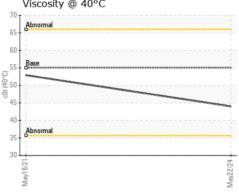
## **OIL ANALYSIS REPORT**













Laboratory Sample No.

: ML0001744 **Lab Number** : 06197144 Unique Number : 11059267

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 Tested

: 03 Jun 2024 Diagnosed : 04 Jun 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE

17941 SUSSEX HIGHWAY BRIDGEVILLE, DE US 19933

Contact: MATT CLARK

MCLARK@mcclung-logan.com T: (302)337-3400

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

F: (302)337-9083 Contact/Location: MATT CLARK - VOLVO1023