

# **OIL ANALYSIS REPORT**







Machine Id VOLVO A30G 340072

Component Rear Axle

{not provided} (--- GAL)



#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

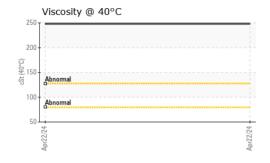
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION	-/						
Sample Date   Client Info   22 Apr 2024	SAMPLE INFORMA	NOITA	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         11356             Oil Age         hirs         Client Info         11356             Oil Changed         Client Info         N/A             Sample Status         Client Info         N/A            CONTAMINATION         method         limitbase         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limitbase         current         history1         history2           Iron         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >20         0             Niker         ppm         ASTM D5185m         >30         0             Aluminum         ppm         ASTM D5185m         0         0             Lead         ppm         ASTM D5185m         >50         0             Copper         p	Sample Number		Client Info		ML0000985		
Machine Age         hrs         Client Info         11356             Oil Age         hirs         Client Info         11356             Oil Changed         Client Info         N/A             Sample Status         Client Info         N/A            CONTAMINATION         method         limitbase         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limitbase         current         history1         history2           Iron         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >20         0             Niker         ppm         ASTM D5185m         >30         0             Aluminum         ppm         ASTM D5185m         0         0             Lead         ppm         ASTM D5185m         >50         0             Copper         p	· .		Client Info		22 Apr 2024		
Oil Changed         hrs         Client Info         N/A	·	nrs	Client Info		-		
Oil Changed Status		hrs	Client Info		11356		
CONTAMINATION	-				N/A		
Water   WC Method   So.2   NEG   Society   State   Society   State   Society   Socie					NORMAL		
Water         WC Method         >0.2         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >900         30             Chromium         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         0         0             Aluminum         ppm         ASTM D5185m         >30         0             Aluminum         ppm         ASTM D5185m         >50         0             Aluminum         ppm         ASTM D5185m         >50         0             Aluminum         ppm         ASTM D5185m         >20         <11             Copper         ppm         ASTM D5185m         >20         <1             Vanadium         ppm         ASTM D5185m         0			method	limit/base	current	history1	history2
			WC Method	>0.2	NEG		
Chromium         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >10         0             Tittanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >50         0             Lead         ppm         ASTM D5185m         >50         0             Copper         ppm         ASTM D5185m         >50         0             Tin         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0              Cadmium         ppm         ASTM D5185m         0              Boron         ppm         ASTM D5185m         0              Malagnese         ppm         ASTM D5185m         1         0 <td< td=""><td>WEAR METALS</td><td></td><td>method</td><td>limit/base</td><td>current</td><td>history1</td><td>history2</td></td<>	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         >10         0             Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >50         0             Aluminum         ppm         ASTM D5185m         >50         0             Lead         ppm         ASTM D5185m         >50         0             Copper         ppm         ASTM D5185m         >50         0             Vanadium         ppm         ASTM D5185m         0              Cadmium         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Malpasesium         ppm         ASTM D5185m         29	Iron g	opm	ASTM D5185m	>900	30		
Nickel			ASTM D5185m	>20	0		
Description					_		
ASTM D5185m   D							
ASTM D5185m   STM D5185m   ST					-		
Lead				>30	-		
Description							
Tin							
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         1             Manganese         ppm         ASTM D5185m         29             Manganesium         ppm         ASTM D5185m         29             Manganesium         ppm         ASTM D5185m         29             Calcium         ppm         ASTM D5185m         109             Phosphorus         ppm         ASTM D5185m         109             Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
ADDITIVES	i.			>20			
ADDITIVES					_		
Boron	<u>'</u>	эрш	ASTIVI DOTOSITI		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1             Manganese         ppm         ASTM D5185m         29             Magnesium         ppm         ASTM D5185m         29             Calcium         ppm         ASTM D5185m         415             Phosphorus         ppm         ASTM D5185m         1009             Zinc         ppm         ASTM D5185m         29603             Sulfur         ppm         ASTM D5185m         29603             Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         lim	Boron p	opm	ASTM D5185m		174		
Manganese         ppm         ASTM D5185m         <1	Barium p	opm	ASTM D5185m		0		
Magnesium         ppm         ASTM D5185m         29             Calcium         ppm         ASTM D5185m         415             Phosphorus         ppm         ASTM D5185m         1009             Zinc         ppm         ASTM D5185m         29603             Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         s	Molybdenum p	opm	ASTM D5185m		<1		
Calcium         ppm         ASTM D5185m         415             Phosphorus         ppm         ASTM D5185m         1009             Zinc         ppm         ASTM D5185m         188             Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Silt         scalar<	Manganese p	opm	ASTM D5185m		<1		
Phosphorus         ppm         ASTM D5185m         1009             Zinc         ppm         ASTM D5185m         188             Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >50         6             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE        <	Magnesium p	opm	ASTM D5185m		29		
Table   Tabl	Calcium	opm	ASTM D5185m		415		
Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML        <	Phosphorus p	opm	ASTM D5185m		1009		
Sulfur         ppm         ASTM D5185m         29603             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         6             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Precipitate         scalar         *Visual         NONE         NONE            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NONE         NONE            Sand/Dirt         scalar         *Visual         NORML         NORML            Appearance <td< td=""><td></td><td>opm</td><td>ASTM D5185m</td><td></td><td>188</td><td></td><td></td></td<>		opm	ASTM D5185m		188		
Silicon			ASTM D5185m		29603		
Silicon	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium	Silicon r	onm	ASTM D5185m	>50	6		
Potassium         ppm         ASTM D5185m         >20         0             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual	,			>50			
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NO.2         NEG             Free Water         scalar         *Visual         NEG				>20			
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NO.2         NEG             Free Water         scalar         *Visual         NEG		эрт				historyd	hiotom/2
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Free Water         scalar         *Visual         NEG							
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG Free Water scalar *Visual NEG		scalar					
Emulsified Water scalar *Visual >0.2 NEG Free Water scalar *Visual NEG							
Free Water scalar *Visual NEG	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar		>0.2			
		scalar	*Visual				

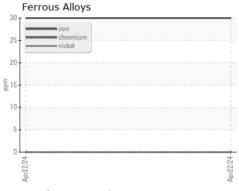


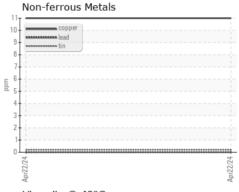
## **OIL ANALYSIS REPORT**

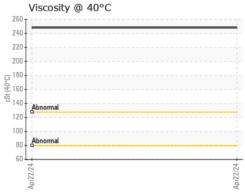




### **GRAPHS**











Certificate 12367

Laboratory

Sample No. : ML0000985 Lab Number : 06159489 Unique Number : 10994912

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed

: 26 Apr 2024 - Jonathan Hester

PO BOX 600 CHANTILLY, VA US 20153 Contact: SERVICE MANAGER

**WILLIAM HAZEL** 

jimmy\_elswick@wahazel.com T: (703)378-8300

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)