



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO A30G C296862 (S/N A30G742386)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0220049</b>	JR0192868	JR0188110
Sample Date		Client Info		<b>03 Jul 2024</b>	20 Feb 2024	26 Oct 2023
Machine Age	hrs	Client Info		<b>7570</b>	7009	569
Oil Age	hrs	Client Info		<b>561</b>	974	6035
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>10</b>	9	62
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>5</b>	4	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

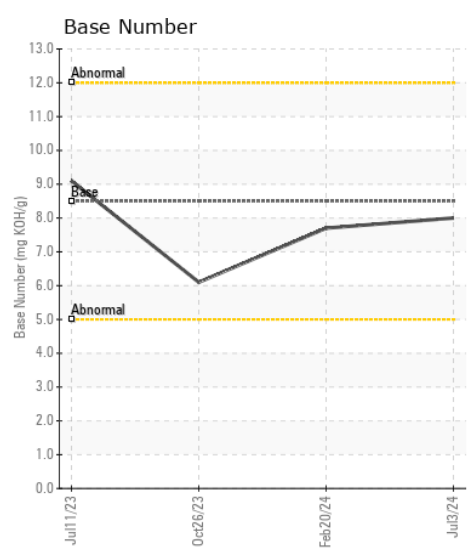
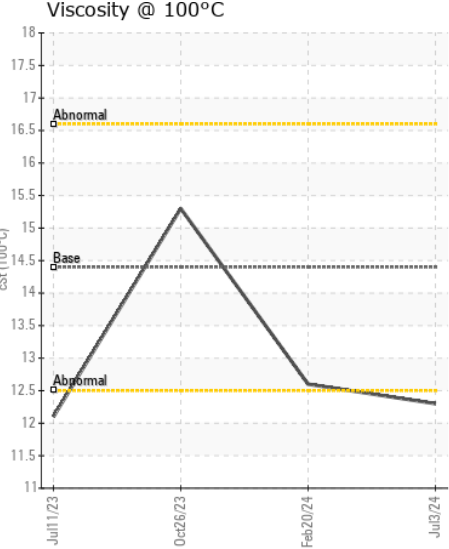
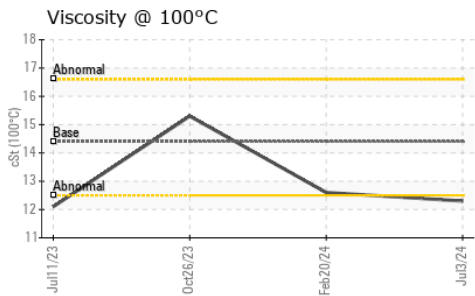
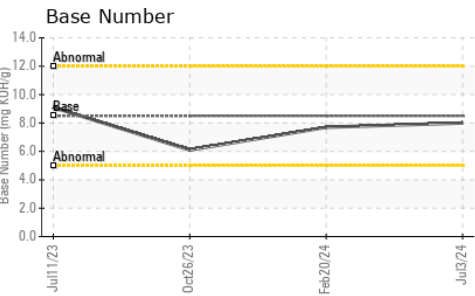
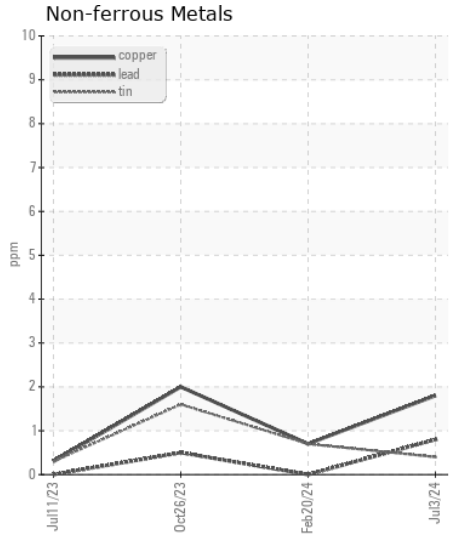
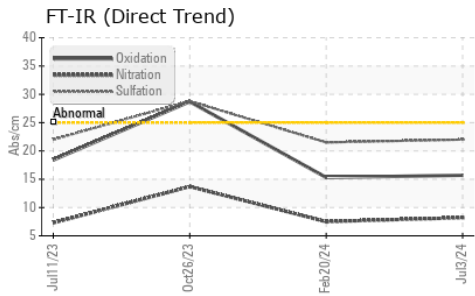
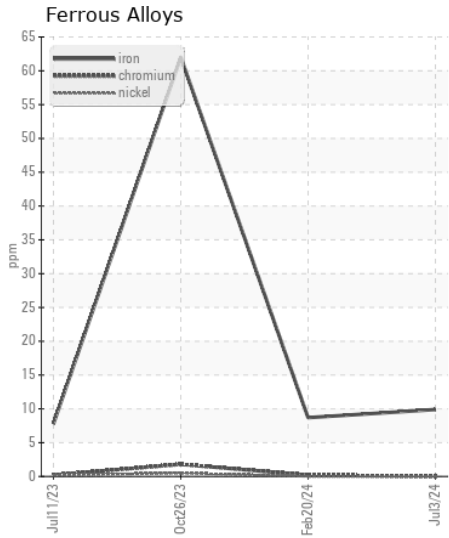
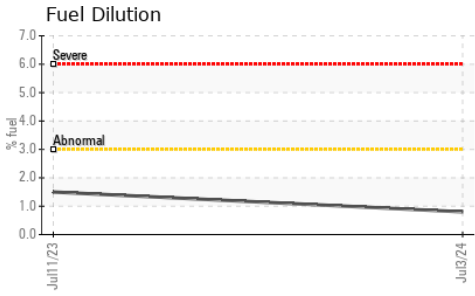
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	2	13
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	4
Fuel	%	ASTM D3524	>3.0	<b>0.8</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	7.5	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	21.5	28.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>158	<b>4</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>232</b>	243	83
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	100	<b>252</b>	230	93
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>783</b>	734	875
Calcium	ppm	ASTM D5185m	3000	<b>1421</b>	1302	1582
Phosphorus	ppm	ASTM D5185m	1150	<b>977</b>	867	1203
Zinc	ppm	ASTM D5185m	1350	<b>1083</b>	981	1625
Sulfur	ppm	ASTM D5185m	4250	<b>3587</b>	2778	3589
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.7</b>	15.3	28.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.0</b>	7.7	6.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.3</b>	12.6	15.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220049 **Received** : 09 Jul 2024  
**Lab Number** : 06231256 **Tested** : 11 Jul 2024  
**Unique Number** : 11114749 **Diagnosed** : 11 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

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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)