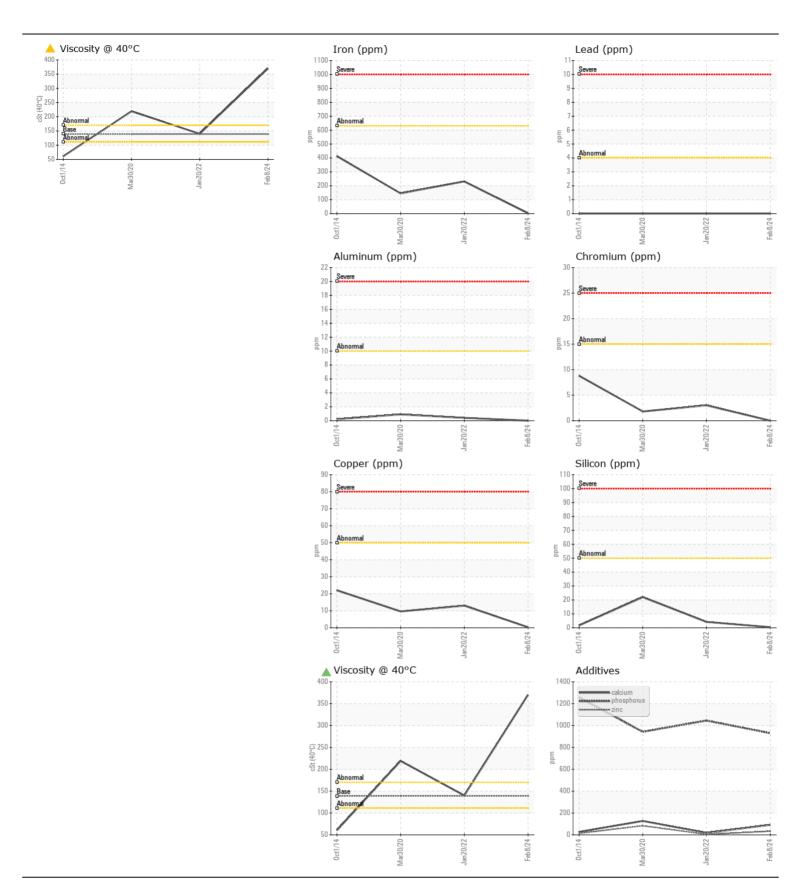


## **VOLVO A30F 82299**

Front Axle

No corrective action is recommended at this time. Resample at the next service interval to monitor.   Sample Date   Cilent Info   0	VOLVO PREMIUM GEAR OIL 8	80W-90 GL-5	( G	AL)				
Sample Date   Client Info   08 Feb 2024   20 Jan 2022   30 Mar 2026   Machine Age   Inst   Client Info   11488   10028   100	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age   hrs   Client Info   1148   1045   10028   1002	No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP454334	VCP332204	VCP272876
Oil Age		Sample Date		Client Info		08 Feb 2024	20 Jan 2022	30 Mar 2020
Filter Age		Machine Age	hrs	Client Info		11488	10461	10028
Not Change   Not		Oil Age	hrs	Client Info		0	1500	2000
Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	0
Name		Oil Changed		Client Info		Not Changd	Not Changd	Changed
Iron		Filter Changed		Client Info		Not Changd	Not Changd	Changed
All component wear rates are normal.    Chromium   ppm   ASTM D5185m   >15   0   0   1     Titanium   ppm   ASTM D5185m   >8   0   0   0     Sliver   ppm   ASTM D5185m   >0   0   0   0     Aluminum   ppm   ASTM D5185m   >10   0   0   0   0     Aluminum   ppm   ASTM D5185m   >10   0   0   0   0     Aluminum   ppm   ASTM D5185m   >10   0   0   0   0     Aluminum		Sample Status				ATTENTION	NORMAL	NORMAL
Nickel   ppm   ASTM DS185m   >8   0   0   1	WEAR	Iron	ppm	ASTM D5185m	>630	2	231	145
Nickel   ppm   ASTM D5185m   -8   0   0   1	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>15	0	3	2
Silver		Nickel	ppm	ASTM D5185m	>8	0	0	1
Aluminum   ppm   ASTM D5185m   >10   0   <1   <1		Titanium	ppm	ASTM D5185m		0	0	<1
Lead		Silver	ppm	ASTM D5185m		0	0	0
Copper		Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Tin		Lead	ppm	ASTM D5185m	>4	0	0	0
Vanadium   ppm   ASTM D5185m   0 0 0 0 0   0		Copper	ppm	ASTM D5185m	>50	<1	13	10
White Metal   Scalar   *Visual   NONE   NO		Tin	ppm	ASTM D5185m	>4	<1	0	0
Yellow Metal   scalar   Visual   NONE   NO		Vanadium	ppm	ASTM D5185m		0	0	0
Silicon   ppm   ASTM D5185m   >50   <1   4   22		White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium	CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	<1	4	22
Water   WC Method   >0.2   NEG   NEG   NEG   NEG	There is no indication of any contamination in the oil.	Potassium		ASTM D5185m	>20	0	2	3
Debris   Scalar   *Visual   NONE   NORML   NOR		Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirt   scalar *Visual   NONE   NONE   NONE   Appearance   scalar *Visual   NORML   NORM		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance   Scalar   *Visual   NORML   NORM		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor   Scalar *Visual   NORML   NORML   NORML   NORML   Emulsified Water   Scalar *Visual   >0.2   NEG   NEG   NEG   NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water   scalar *Visual   >0.2   NEG   NEG   NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium   ppm   ASTM D5185m   0		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron   ppm   ASTM D5185m   379   197   268   123		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Barium ppm ASTM D5185m 0.0 0 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0.8 0 <1 <1 Magnesium ppm ASTM D5185m 0.0 <1 3 1 Magnesium ppm ASTM D5185m 31 0 0 14 Calcium ppm ASTM D5185m 38 91 18 127 Phosphorus ppm ASTM D5185m 1077 930 1045 942 Zinc ppm ASTM D5185m 46 33 4 83 Sulfur ppm ASTM D5185m 23526 30260 16755 19729	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	<1
Barium         ppm         ASTM D5185m         0.0         0         0         0           Molybdenum         ppm         ASTM D5185m         0.8         0         <1	The oil viscosity is higher than normal. Confirm oil type.	Boron	ppm	ASTM D5185m	379	197	268	123
Manganese         ppm         ASTM D5185m         0.0         <1		Barium	ppm	ASTM D5185m	0.0	0	0	0
Magnesium         ppm         ASTM D5185m         31         0         0         14           Calcium         ppm         ASTM D5185m         38         91         18         127           Phosphorus         ppm         ASTM D5185m         1077         930         1045         942           Zinc         ppm         ASTM D5185m         46         33         4         83           Sulfur         ppm         ASTM D5185m         23526         30260         16755         19729		Molybdenum	ppm	ASTM D5185m	0.8	0	<1	<1
Calcium         ppm         ASTM D5185m         38         91         18         127           Phosphorus         ppm         ASTM D5185m         1077         930         1045         942           Zinc         ppm         ASTM D5185m         46         33         4         83           Sulfur         ppm         ASTM D5185m         23526         30260         16755         19729		Manganese	ppm	ASTM D5185m	0.0	<1	3	1
Phosphorus         ppm         ASTM D5185m         1077         930         1045         942           Zinc         ppm         ASTM D5185m         46         33         4         83           Sulfur         ppm         ASTM D5185m         23526         30260         16755         19729		Magnesium	ppm	ASTM D5185m	31	0	0	14
Zinc         ppm         ASTM D5185m         46         33         4         83           Sulfur         ppm         ASTM D5185m         23526         30260         16755         19729		Calcium	ppm	ASTM D5185m	38	91	18	127
Sulfur         ppm         ASTM D5185m         23526         30260         16755         19729		Phosphorus	ppm	ASTM D5185m	1077	930	1045	942
		Zinc	ppm	ASTM D5185m	46	33	4	83
Visc @ 40°C cSt ASTM D445 139 ( 370 ) 140 219		Sulfur	ppm	ASTM D5185m	23526	30260	16755	19729
		Visc @ 40°C	cSt	ASTM D445	139	<b>370</b>	140	219





Certificate L2367

Laboratory Sample No.

: VCP454334 Lab Number : 06087744 Unique Number: 10875189 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 : 14 Feb 2024 **Tested** 

: 15 Feb 2024 - Jonathan Hester Diagnosed

Contact: PM Services PMServices@ripaconstruction.com T:

**RIPA AND ASSOCIATES** 

10149 FISHER AVENUE

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)

TAMPA, FL

US 33619

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