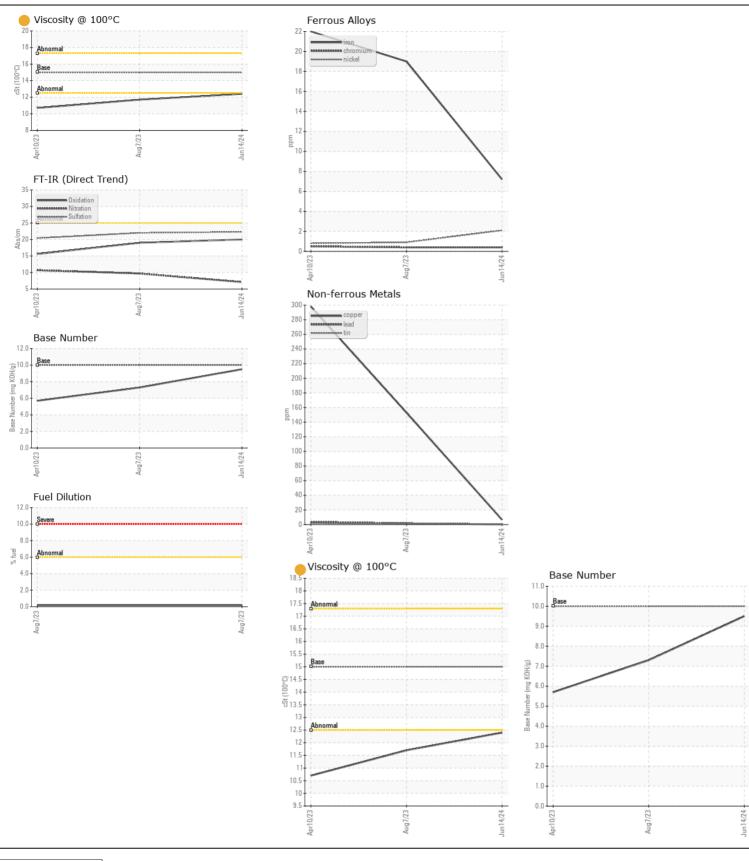


Machine Id **VOLVO A30G 753148**

Diesel Engine

			S-3 (G	IAL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0010895	VCP433999	VCP403225
	Sample Date		Client Info		14 Jun 2024	07 Aug 2023	10 Apr 2023
	Machine Age	hrs	Client Info		2178	1030	593
	Oil Age	hrs	Client Info		2178	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	19	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	2	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>25	3	0	0
	Lead	ppm	ASTM D5185m	>40	<1	2	4
	Copper	ppm	ASTM D5185m	>330	7	<u></u> 153	298
	Tin	ppm	ASTM D5185m	>15	<1	1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	18	△ 38
	Potassium	ppm	ASTM D5185m	>20	2	1	4
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>6.0	<1.0	0.2	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	9.7	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.0	20.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	2	4
<u> </u>	Boron	ppm	ASTM D5185m	2.5	50	20	29
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type	Barium	ppm	ASTM D5185m	0.0	0	0	0
TROPO IS SUITABLE SIVAURITY FOR SIRING IN THE SUIT CONTINUE OF TWO	Molybdenum	ppm	ASTM D5185m	0.7	43	56	78
there is suitable alkalinity remaining in the oil. Confirm oil type.	Managanaga	ppm	ASTM D5185m	0.0	<1	2	4
triere is suitable aikalinity remaining in the oil. Confirm oil type.	Manganese			OFC	534	000	46
triere is suitable aikalinity remaining in the oil. Confirm oil type.	Magnesium	ppm	ASTM D5185m	256	334	330	
triere is suitable alkalinity remaining in the oil. Confirm oil type.	-	ppm ppm		2057	1750	1970	2168
triere is suitable alkalinity remaining in the oil. Confirm oil type.	Magnesium			2057			
triere is suitable aikalinity remaining in the oil. Confirm oil type.	Magnesium Calcium	ppm	ASTM D5185m	2057 935	1750	1970	2168
triere is suitable alkalinity remaining in the oil. Confirm oil type.	Magnesium Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	2057 935 1223	1750 1022	1970 939	2168 967
triere is suitable aikalinity remaining in the oil. Confirm oil type.	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2057 935 1223 4079	1750 1022 1228	1970 939 1175	2168 967 1195
triere is suitable alkalinity remaining in the oil. Confirm oil type.	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2057 935 1223 4079 >25	1750 1022 1228 3551	1970 939 1175 3807	2168 967 1195 4407





Certificate L2367

Report Id: CWMMAR [WUSCAR] 06222034 (Generated: 06/30/2024 19:12:54) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06222034

: ASC0010895

Received **Tested** Unique Number : 11100231 Diagnosed

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

: 27 Jun 2024 : 28 Jun 2024

: 28 Jun 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

CW MATTHEWS 1600 KENVIEW DRIVE MARIETTA, GA US 30060 Contact: JESSE WILSON

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. jesse.wilson@ascendummachinery.com T:

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