WEAR CONTAMINATION **FLUID CONDITION**

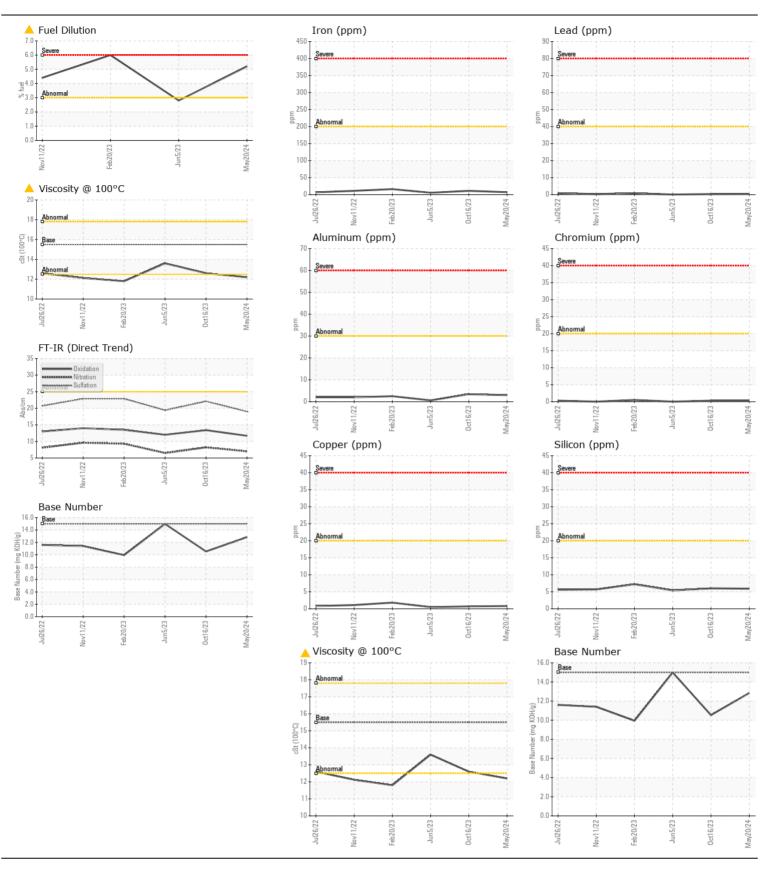
NORMAL ABNORMAL ABNORMAL

Machine Id

VOLVO A30G 2495 Component Diesel Engine

OIL ANALYSIS REPORT

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR06191247	TR05984221	TR0587113
	Sample Date		Client Info		20 May 2024	16 Oct 2023	05 Jun 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		480	1044	529
	Filter Age	hrs	Client Info		480	1044	529
	Oil Changed		Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Not Changd	Changed	Not Chang
	Sample Status				ABNORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>200	7	11	5
	Chromium	ppm	ASTM D5185m		<1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	7.0	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	3	<1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>20	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	6	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	<1	0
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		<u>∠</u> 5.2	<1.0	2.8
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.2	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	22.1	19.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	5
LOID CONDITION	Boron	ppm	ASTM D5185m		- 197	152	231
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		188	160	156
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		366	407	378
	Calcium	ppm	ASTM D5185m	4500	3466	3610	3702
	Phosphorus	ppm	ASTM D5185m		891	894	817
	Zinc	ppm	ASTM D5185m	1400	979	1034	915
	Sulfur	ppm	ASTM D5185m		4054	3618	3868
		Abs/.1mm	*ASTM D7414	>25	11.7	13.4	12.0
	Oxidation	AU5/. 1111111	AOTIVI DI TIT	/		10.1	12.0
	Oxidation Base Number (BN)				12.83	10.53	14.98







Certificate L2367

Laboratory Sample No.

: TR06191247 Lab Number : 06191247 Unique Number : 11047999

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 24 May 2024 : 31 May 2024 Diagnosed

: 31 May 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

28 STONE RD BELMONT, NH US 03220 Contact: DON PERCY

NUTTER ENTERPRISES INC

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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) T: F: