WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

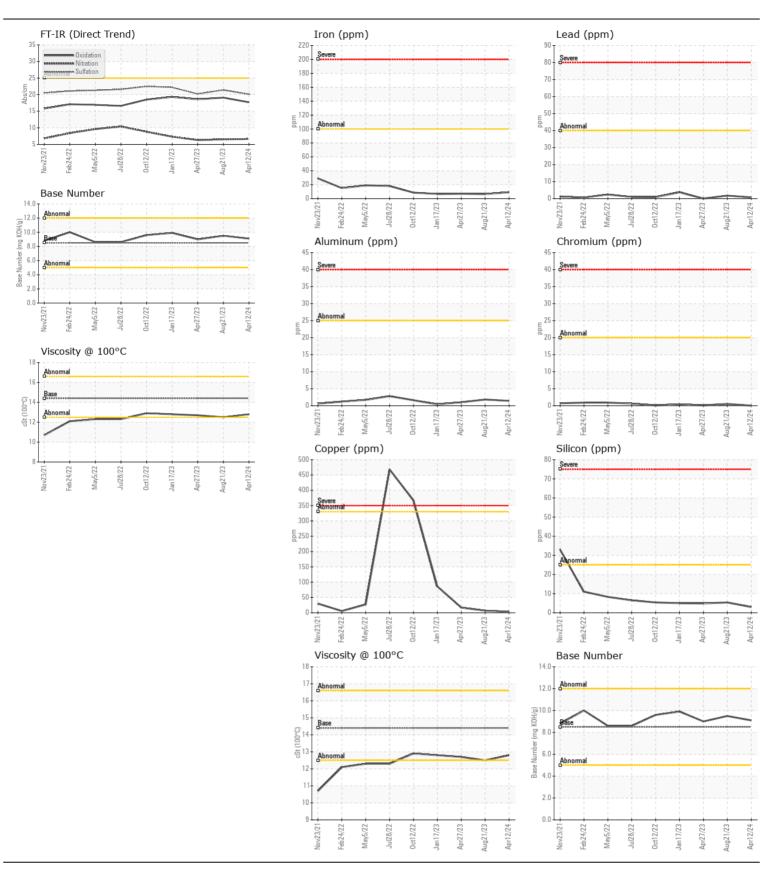
Area

[SW0071176]

VOLVO A45G 352734

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP434420		VCP382605
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Apr 2024	21 Aug 2023	27 Apr 2023
	Machine Age	hrs	Client Info		4585	3997	3463
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	6	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>2	2	2	2
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	2	1
	Lead	ppm	ASTM D5185m	>40	<1	2	0
	Copper	ppm	ASTM D5185m	>330	4	7	17
	Tin	ppm	ASTM D5185m	>15	0	1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	3	5	5
	Potassium	ppm	ASTM D5185m	>20	2	3	<1
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.5	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.4	20.2
	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		3	3	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		33	52	58
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	44	39	39
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		588	497	492
	Calcium	ppm		3000	1362	1670	1579
	Phosphorus	ppm	ASTM D5185m		881	899	874
	Zinc	ppm	ASTM D5185m		1003	1106	1081
	Sulfur	ppm Abo/ 1mm	ASTM D5185m		3357	3466	2903
	Oxidation	Abs/.1mm	*ASTM D7414		17.7	19.1	18.6
	Base Number (BN) Visc @ 100°C				9.1	9.5	9.0
	visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.5	12.7





Certificate L2367

Laboratory Sample No. Unique Number: 10981647

Lab Number

: VCP434420 : 06151569

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

Received **Tested** Diagnosed

: 17 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Jonathan Hester

SAIIA CONSTRUCTION LLC 4400 LEWISBURG RD

BIRMINGHAM, AL US 35207

Contact: STEPHANI BRITTON sbritton@saiia.com;doug.bogart@wearcheck.com

T: (205)943-2268

Test Package : MOB 1 (Additional Tests: TBN) 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) F: (205)943-2269