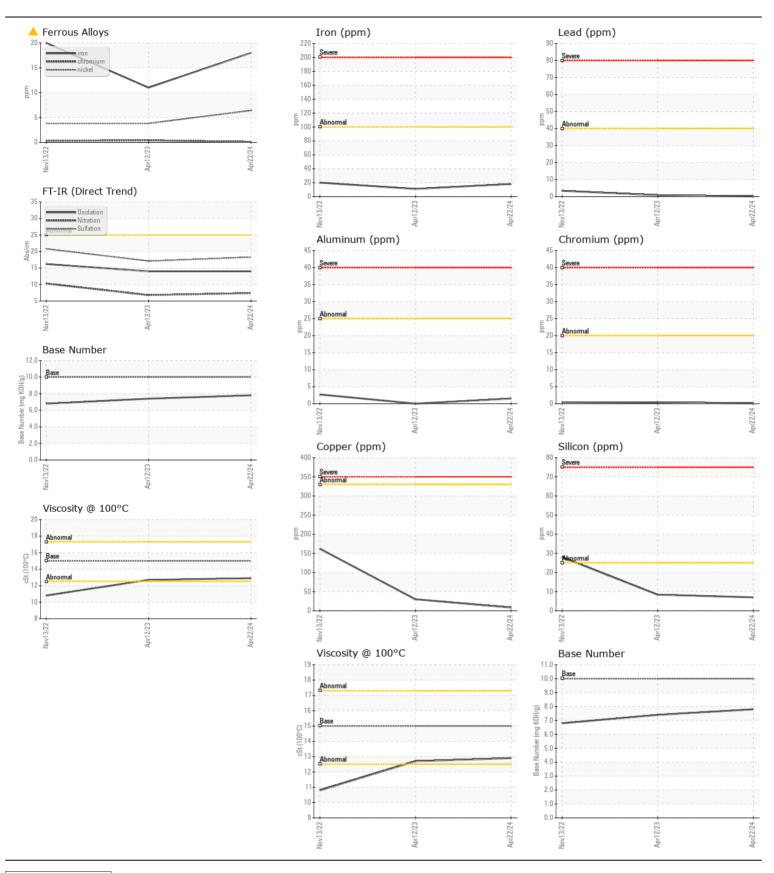
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

## Ascendum Machinery/500 Hour CSA [41944] VOLVO A40G 2220 (S/N 352927)



RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP454988	-	VCP0004959
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		22 Apr 2024	12 Apr 2023	13 Nov 2022
	Machine Age	hrs	Client Info		1441	953	543
	Oil Age	hrs	Client Info		0	410	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	18	11	20
VEAIL	Chromium	ppm	ASTM D5185m		<1	<1	<1
Valve wear is indicated.	Nickel	ppm	ASTM D5185m		<u>^</u> 6	4	4
	Titanium	ppm	ASTM D5185m	72	0	0	0
	Silver	ppm	ASTM D5185m	<b>\2</b>	0	0	<1
	Aluminum	ppm	ASTM D5185m		2	0	3
	Lead		ASTM D5185m	>40	<1	<1	3
	Copper	ppm	ASTM D5185m		8	30	162
	Tin	ppm	ASTM D5185m		2	2	4
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	8	28
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	1	2
	Fuel		WC Method	>6.0	<1.0	<1.0	0.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.8	10.3
	Sulfation	Abs/.1mm	*ASTM D7415		18.3	17.1	20.8
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	3
The DNI was the indicates that there is gettern a Health consistent of the	Boron	ppm	ASTM D5185m	2.5	10	10	48
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0.0	0	2	0
	Molybdenum	ppm	ASTM D5185m	0.7	61	61	81
	Manganese	ppm	ASTM D5185m	0.0	1	<1	3
	Magnesium	ppm	ASTM D5185m	256	892	770	86
	Calcium	ppm	ASTM D5185m	2057	1153	1224	2102
	Phosphorus	ppm	ASTM D5185m	935	1052	993	917
	Zinc	ppm	ASTM D5185m	1223	1216	1178	1154
	Sulfur	ppm	ASTM D5185m	4079	3462	3392	4445
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.0	16.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10	7.8	7.4	6.8
	Visc @ 100°C	cSt	ASTM D445		12.9	12.7	10.8





Certificate L2367

Laboratory Sample No.

: VCP454988 Lab Number : 06157352

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

Received **Tested** Unique Number : 10992775 Diagnosed

Test Package : MOB 1 ( Additional Tests: TBN )

: 24 Apr 2024 : 25 Apr 2024 - Jonathan Hester

: 23 Apr 2024

TRIANGLE GRADING AND PAVING INC 1521 Huffman Mill Rd

Contact/Location: KAREN HILLIARD - TRIBUR

BURLINGTON, NC US 27216

Contact: KAREN HILLIARD To discuss this sample report, contact Customer Service at 1-800-237-1369. khilliard@trianglegradingpaving.com T: (336)584-1745

\* - 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: (336)584-0145