**WEAR** CONTAMINATION **FLUID CONDITION** 

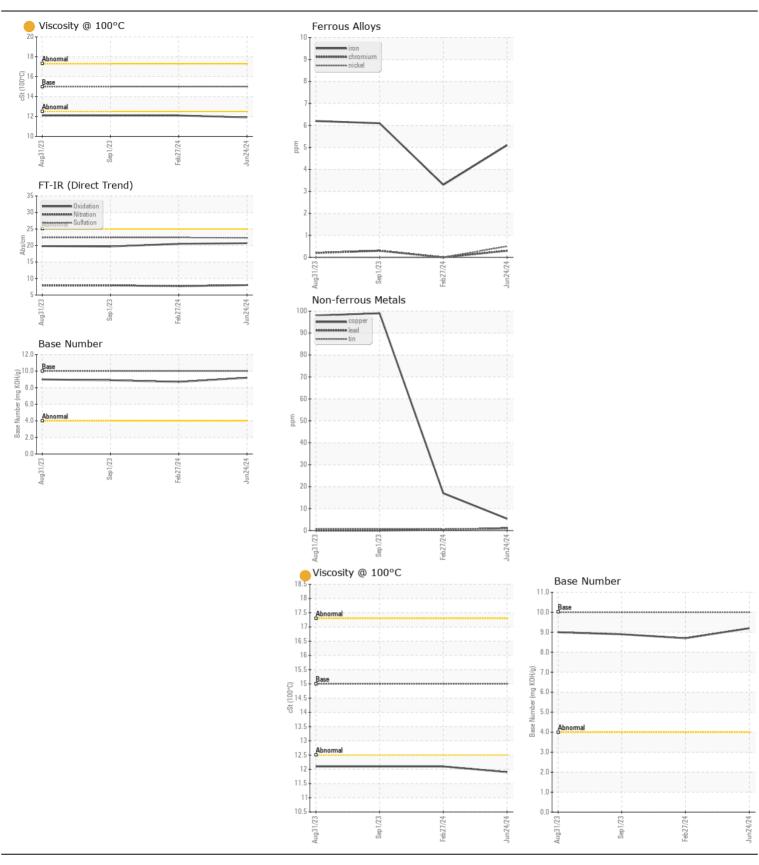
**NORMAL NORMAL ATTENTION** 



Machine Id **VOLVO EC350E 314478** 

Component Diesel Engine

ECOMMEND ATION	T4	11044	N / - + la l	Line St. / Alle	(	I Bakama	Libeto
RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		ASC0003332 24 Jun 2024	ASC0003409 27 Feb 2024	VCP413639
	Machine Age	hre	Client Info		24 Jun 2024 2007	1496	01 Sep 2023 1007
	Oil Age	hrs	Client Info		511	1007	0
	Filter Age	hrs hrs	Client Info		0	1007	0
	Oil Changed	1115	Client Info		-		
	Filter Changed				Changed	Changed	Changed
	Sample Status		Client Info		Changed ATTENTION	Changed ATTENTION	Changed ABNORMAL
	Sample Status				ATTENTION	ATTENTION	ADNONIVIAI
VEAR	Iron	ppm	ASTM D5185m	>100	5	3	6
	Chromium	ppm	ASTM D5185m	>10	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	<1	1
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m		5	<u> 17</u>	<b>4</b> 99
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	0
	Fuel		WC Method		<1.0	<1.0	2.8
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.7	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.4	22.4
	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	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	4
LOID CONDITION	Boron	ppm	ASTM D5185m	25	42	32	25
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		1	0	0
	Molybdenum	ppm	ASTM D5185m		43	39	49
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		482	511	562
	Calcium	ppm	ASTM D5185m		1664	1643	1773
	Phosphorus	ppm	ASTM D5185m		869	956	993
	Zinc	ppm	ASTM D5185m		1120	1125	1221
	Sulfur	ppm	ASTM D5185m		2841	2828	3639
	Oxidation	Abs/.1mm	*ASTM D7414		20.7	20.5	19.7
	Base Number (BN)		ASTM D2896		9.2	8.7	8.9
	Dase Mullipel (DIN)	my Norry	AOTIVI DZ030	10	3.Z	0.7	0.5





Certificate L2367

Laboratory Sample No.

Lab Number : 06219514 Unique Number : 11097711

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0003332

**Tested** Diagnosed Test Package : CONST ( Additional Tests: TBN )

Received : 25 Jun 2024 : 26 Jun 2024 : 26 Jun 2024 - Don Baldridge

160 - ASCENDUM MACHINERY INC - MILLS RIVER

215 FANNING FIELDS RD MILLS RIVER, NC

US 28759 Contact: BRANDON DRAKE

brandon.drake@ascendummachinery.com

T: 8(286)687-0620

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.

F: (828)687-0622 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)