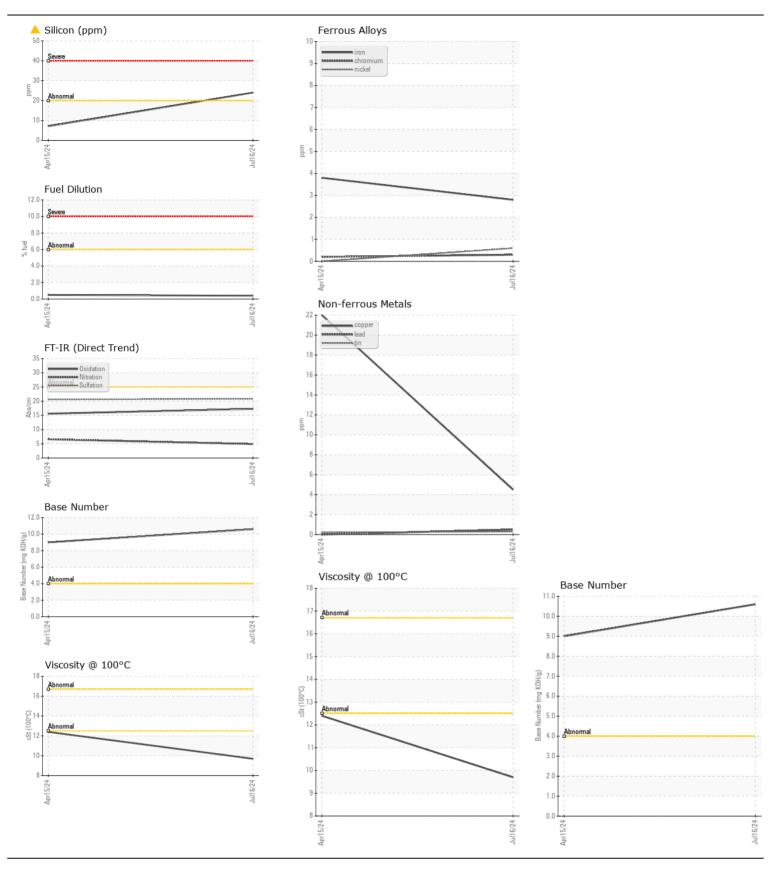
WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL

Machine Id

VOLVO EC350EL 314240

Diesel Engine							
{not provided} (GAL)							
	T4	LIOM	Mathaad	Line it / Alexa		I lintom d	L linta m . O
RECOMMENDATION No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current VCP0008188	History1 VCP0007828	History2
	Sample Date		Client Info		16 Jul 2024	15 Apr 2024	
	Machine Age	hrs	Client Info		2291	0	
	Oil Age	hrs	Client Info		2291	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1110	Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	nnm	ASTM D5185m	×100	3	Л	
WEAN	Iron Chromium	ppm	ASTM D5185m		ა <1	4	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1 <1	<1 0	
	Titanium	ppm	ASTM D5185m	>10	<1	0	
	Silver		ASTM D5185m	~2	0	0	
	Aluminum	ppm	ASTM D5185m		3	3	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		4	<u>^</u> 22	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	7.0	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4 24	7	
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Fuel	%	ASTM D3524	>6.0	0.4	0.5	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.6	
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	20.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor Emulsified Water	scalar	*Visual	NORML >0.1	NORML	NORML	
	Emuisined water	Scalar	visuai	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	
	Boron	ppm	ASTM D5185m		100	354	
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		<1	0	
	Molybdenum	ppm	ASTM D5185m		52	129	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		482	506	
	Calcium	ppm	ASTM D5185m		1496	1601	
	Phosphorus	ppm	ASTM D5185m		900	980	
	Zinc	ppm	ASTM D5185m		1054	1085	
	Sulfur	ppm	ASTM D5185m		2947	3097	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	15.6	
	Base Number (BN)	0 0			10.6	9.0	
	Visc @ 100°C	cSt	ASTM D445		9.7	12.4	







Certificate L2367

Laboratory Sample No.

Lab Number : 06238991 Unique Number : 11127825

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP0008188

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Tested

: 19 Jul 2024 Diagnosed

: 17 Jul 2024

: 19 Jul 2024 - Sean Felton Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: SHAWN NORTHCRAFT shawn.northcraft@altg.com T: (904)737-6000

ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY

JACKSONVILLE, FL

F: (904)737-1260

* - 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) US 32256