WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

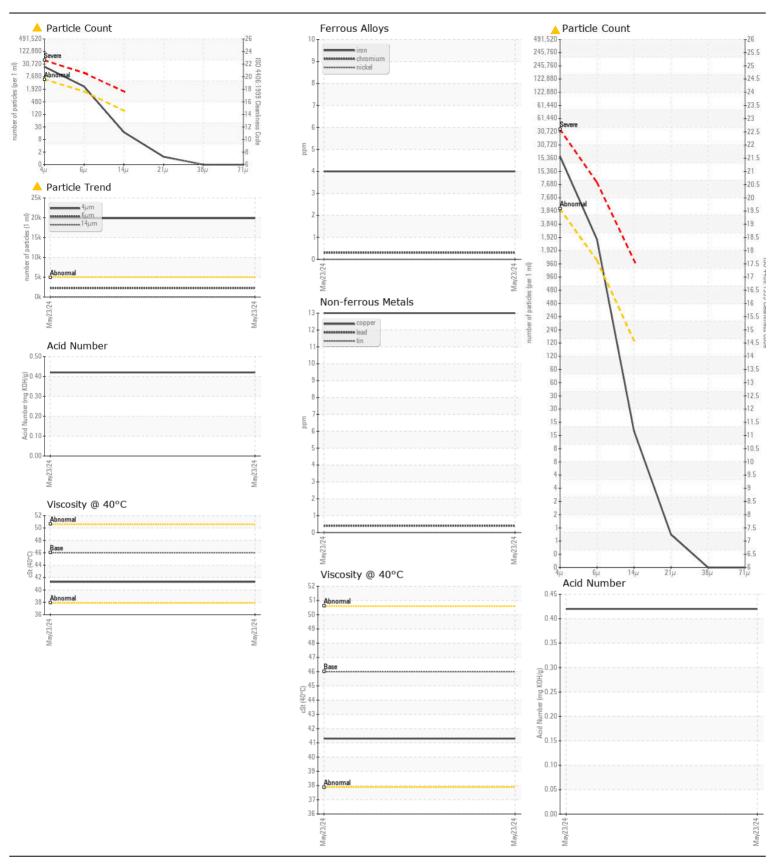
[716767 HILLSBOROUGH]

**VOLVO EW160E 324250** 

Hydraulic System

**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP447359		
	Sample Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		1002		
	Oil Age	hrs	Client Info		1002		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	nnm	ASTM D5185m	. 20	4		
WEAR	Chromium	ppm	ASTM D5185m		4 <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
		ppm		>10	_		
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0		
		ppm		. 10	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		13 0		
		ppm		>10	0		
	Vanadium White Metal	ppm	*Visual	NONE	NONE		
		scalar		NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6		
CONTAININATION	Potassium	ppm	ASTM D5185m	>20	2		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	1-1-	WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		<b>19873</b>		
	Particles >6µm		ASTM D7647		2249		
	Particles >14µm		ASTM D7647		15		
	Particles >21μm		ASTM D7647		1		
	Particles >38μm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/11		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The oil is still serviceable	Boron	ppm	ASTM D5185m		0		
provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		61		
	Phosphorus	ppm	ASTM D5185m		293		
	Zinc	ppm	ASTM D5185m		383		
	Sulfur	ppm	ASTM D5185m	3/19	1233		
	A 1 1 A 1						
	Acid Number (AN) Visc @ 40°C	mg KOH/g cSt	ASTM D8045 ASTM D445	40	0.42 41.3		





Certificate L2367

Laboratory Sample No. Lab Number

: VCP447359 : 06214589 Unique Number : 11087453 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested** 

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis Diagnosed

8418 PALM RIVER ROAD

TAMPA, FL US 33619 Contact: JOHN FARDELLA

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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (813)630-2233

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC