WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

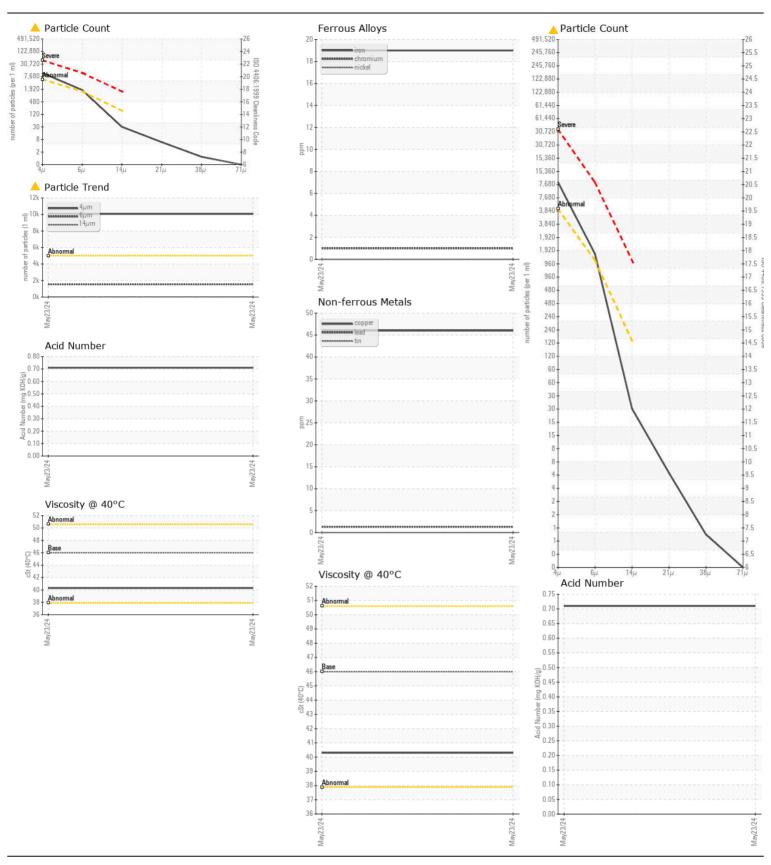
[716771 HILLSBOROUGH]

VOLVO EW160E 323446

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	Sample Number		Client Info		VCP451488		
	Sample Date		Client Info		23 May 2024		
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		8720		
	Oil Age	hrs	Client Info		4000		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		19		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		46		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTABINATION	Ciliaan		ACTM DE10Em	. 20	7		
CONTAMINATION	Silicon	ppm	ASTM D5185m		7		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		<u> 10061</u>		
	Particles >6µm		ASTM D7647		1542		
	Particles >14µm		ASTM D7647		27 -		
	Particles >21µm		ASTM D7647		5		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/18/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris Sand/Dist	scalar	*Visual	NONE	NONE NONE		
	Sand/Dirt	scalar	*Visual		NORML		
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML		
	Emulsified Water		*Visual		NEG		
	Elliuisilleu vvalei	Scalai	Visuai	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m	14	0		
The AN level is acceptable for this fluid. The oil is still serviceable 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		2		
	Calcium	ppm		49	153		
	Phosphorus	ppm	ASTM D5185m		446		
	Zinc	ppm	ASTM D5185m		590		
	Sulfur	ppm	ASTM D5185m		1352		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.71		
	Visc @ 40°C	cSt	ASTM D445	46	40.3		





Certificate L2367

Laboratory Sample No. Lab Number

: VCP451488 : 06214590 Unique Number : 11087454

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

Diagnosed

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 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.

john.fardella@altg.com T: (813)630-0077

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

Test Package : MOB 2

F: (813)630-2233