WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

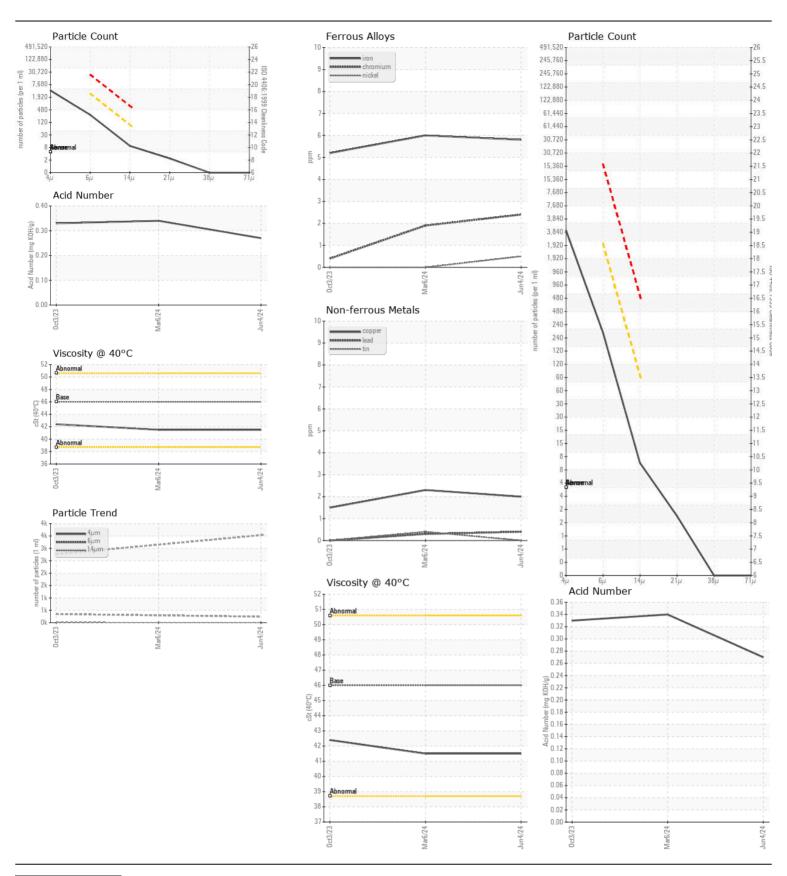
[A12796]

## **VOLVO L110H 632555**

Hydraulic System

MOBIL HYDRAULIC OIL AW 46 (--- GAL)

MOBIL HYDRAULIC OIL AW 46 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOGIMIENDATION	Sample Number	00	Client Info	2	VCP445229	,	VCP441835
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jun 2024	06 Mar 2024	03 Oct 2023
	Machine Age	hrs	Client Info		4100	3345	1760
	Oil Age	hrs	Client Info		4100	0	1760
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAD			AOTM DEADE			^	
WEAR  All component wear rates are normal.	Iron	ppm	ASTM D5185m		6	6	5
	Chromium	ppm	ASTM D5185m		2	2	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m	- 20	0 <1	0	0
	Lead	ppm	ASTM D5185m		<1 <1	<1	0
	Copper	ppm	ASTM D5185m		2	2	2
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	>20	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	1	1	1
The state of the s	Potassium	ppm	ASTM D5185m	>20	4	<1	<1
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method	>0.1	NEG	NEG	NEG
cleaniness code. The system and huld cleaniness is acceptable.	Particles >4µm		ASTM D7647		3532		2768
	Particles >6µm		ASTM D7647		243		350
	Particles >14µm		ASTM D7647	>80	8		13
	Particles >21µm		ASTM D7647		2		2
	Particles >38µm		ASTM D7647		0		0
	Particles >71µm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)		19/15/10		19/16/11
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NORML
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
	water	Scalai	Visuai		NEG	NLG	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	<1
	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5185m		0	0	0
suitable for further service.	Molybdenum	ppm	ASTM D5185m		0	1	1
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		7	5	4
	Calcium	ppm	ASTM D5185m		68	62	63
	Phosphorus	ppm	ASTM D5185m		357	332	345
	Zinc	ppm	ASTM D5185m		461	423	442
	Sulfur	ppm	ASTM D5185m		2415	2265	2020
	Acid Number (AN)	mg KOH/g	ASTM D8045	40	0.27	0.34	0.33
	Visc @ 40°C	cSt	ASTM D445	46	41.5	41.5	42.4





Certificate L2367

Laboratory

Sample No. Lab Number Unique Number: 11088602

: VCP445229 : 06215738 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 21 Jun 2024

: 21 Jun 2024 - Wes Davis Diagnosed

**HMR ASSOCIATES** PO BOX 485

TOUGHKENAMON, PA US 19374

F: (610)268-2225

Contact: SERVICE MANAGER

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.

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