

WEAR CONTAMINATION FLUID CONDITION

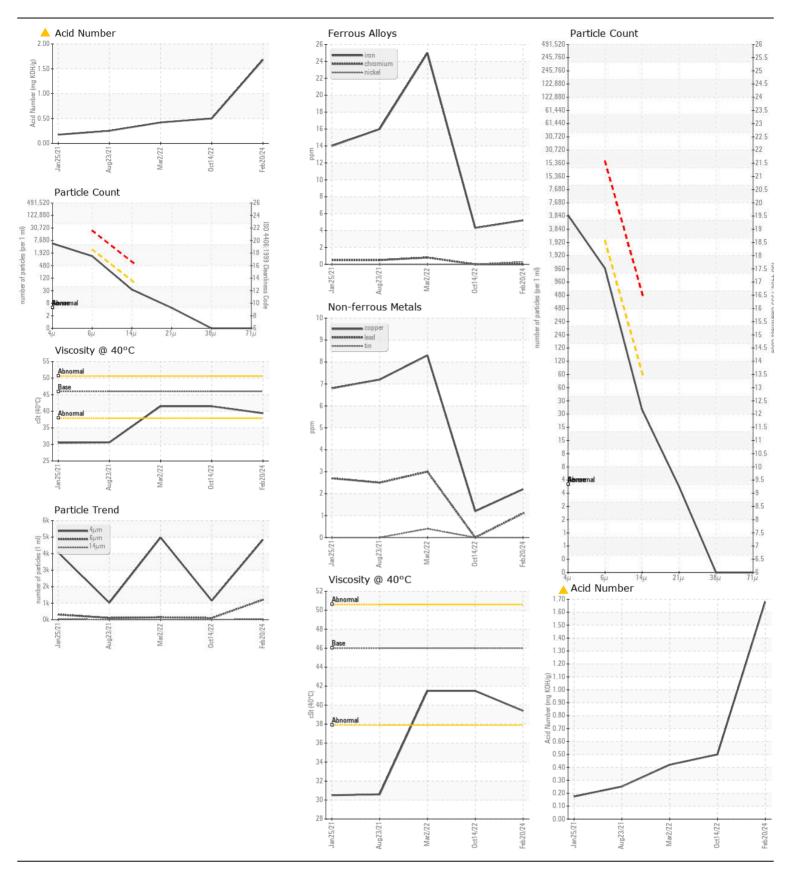
NORMAL NORMAL ABNORMAL



Trea [74848 LAKE CONWAY] Machine Id VOLVO L20H 1220189

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP445681	VCP385465	VCP346555
	Sample Date		Client Info		20 Feb 2024	14 Oct 2022	02 Mar 202
	Machine Age	hrs	Client Info		3401	2655	2089
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	5	4	25
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
	Lead	ppm	ASTM D5185m	>20	1	0	3
	Copper	ppm	ASTM D5185m	>150	2	1	8
	Tin	ppm	ASTM D5185m	>20	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	1	2	3
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		4843	1150	4972
	Particles >6µm		ASTM D7647	>2500	1204	102	144
	Particles >14µm		ASTM D7647	>80	30	8	12
	Particles >21µm		ASTM D7647	>20	4	2	3
	Particles >38µm		ASTM D7647	>4	0	0	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>/18/13	19/17/12	17/14/10	19/14/1
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	2
	Boron	ppm	ASTM D5185m	14	4	0	<1
The AN level is at the top-end of the recommended limit.	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.0	6	10	<1
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		70	77	0
	Calcium	ppm	ASTM D5185m	49	193	200	43
	Phosphorus	ppm	ASTM D5185m	354	315	332	343
	Zinc	ppm	ASTM D5185m		376	388	319
	Sulfur	ppm	ASTM D5185m	3719	2563	3099	3667
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.68	0.50	0.42
	Visc @ 40°C	cSt	ASTM D445	46	39.4	41.5	41.5





Certificate L2367

Laboratory Sample No.

: VCP445681 Lab Number : 06102912 Unique Number: 10901142 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 29 Feb 2024

: 01 Mar 2024 - Don Baldridge Diagnosed

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619

Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077

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)

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