

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

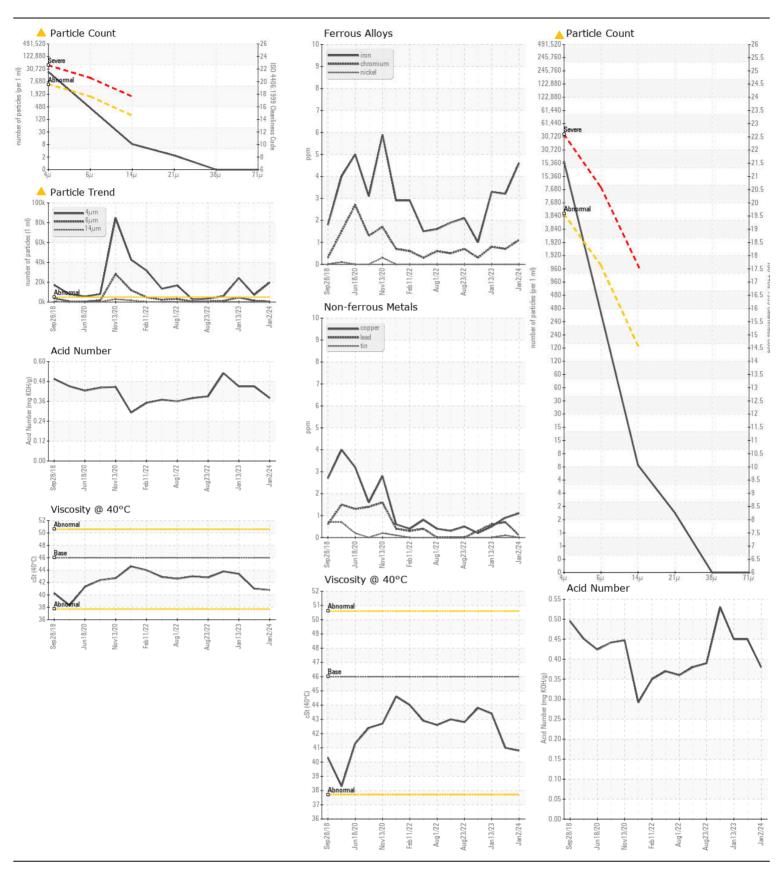
NORMAL



AMR-12th Street Machine Id 438153 VOLVO L180H 4787

Hydraulic System

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	OOW	Client Info	EIIIIU/AUII	DJJ0016937		DJJ0012281
	Sample Date		Client Info		02 Jan 2024	05 Jul 2023	13 Jan 202
	Machine Age	hrs	Client Info		11028	10517	9993
	Oil Age	hrs	Client Info		0	0	2000
	Filter Age	hrs	Client Info		0	0	2000
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ATTENTION	0
WEAR	Iron	ppm	ASTM D5185m	>50	5	3	3
WEAT	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	710	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
	Lead	ppm	ASTM D5185m		- <1	<1	<1
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		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	2	1	2
	Potassium	ppm	ASTM D5185m		1	1	1
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		▲ 19710	▲ 7198	▲ 24290
	Particles >6µm		ASTM D7647		374	1289	▲ 4621
	Particles >14µm		ASTM D7647		7	77	153
	Particles >21µm		ASTM D7647		2	23	33
	Particles >38µm		ASTM D7647		0	0	2
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/16/10	2 0/17/13	<u>^</u> 22/19/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	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.	Boron	ppm	ASTM D5185m	14	0	0	0
	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		2	0	2
	Calcium	ppm	ASTM D5185m	49	80	82	141
	Phosphorus	ppm	ASTM D5185m		365	356	357
	Zinc	ppm	ASTM D5185m		429	442	448
	Sulfur	ppm	ASTM D5185m		882	1058	1057
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.45	0.45





Certificate L2367

Report Id: ADVKANLH [WUSCAR] 06058715 (Generated: 01/12/2024 18:57:24) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: DJJ0016937 : 06058715 : 10830097 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 : 12 Jan 2024 Diagnosed : Wes Davis Diagnostician

ADVANTAGE METALS RECYCLING - 12 STREET 1153 S. 12TH STREET

KANSAS CITY, KS US 66105

Contact: JOHN PEEK

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* - 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)

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

F: (913)621-2766