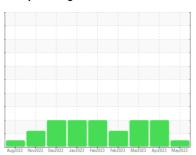


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Wachine Id VOLVO
Component

Transmission (Auto)

CASTROL TRANSMAX SYNTHETIC MV ATF (28 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

F (28 GAL)		Aug2022 Nov	2022 Dec2022 Jan2023	Feb 2023 Feb 2023 Mar 2023 Apr 20	23 May2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0700578	WC0700573	WC0700568
Sample Date		Client Info		02 May 2023	03 Apr 2023	01 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	0	<1
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	93	103	102
Barium	ppm	ASTM D5185m	0	4	30	36
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	10	<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	370	30	75	68
Phosphorus	ppm	ASTM D5185m	300	156	210	176
Zinc	ppm	ASTM D5185m	0	0	5	5
Sulfur	ppm	ASTM D5185m	1600	504	955	842
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	1	<1
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	89	▲ 7330	△ 73051
Particles >6µm		ASTM D7647	>640	30	△ 3476	△ 34924
Particles >14µm		ASTM D7647	>80	5	▲ 473	△ 3919
Particles >21µm		ASTM D7647	>20	2	9 2	△ 361
Particles >38µm		ASTM D7647	>4	0	2	3
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	14/12/10	△ 20/19/16	▲ 23/22/19
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045

0.93

0.86

0.78



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10455407 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 03 May 2023 : WC0700578 Received : 05836604 : 08 May 2023

Diagnosed Diagnostician : Doug Bogart

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)

HAWE HYDRAULICS - HUNTERSVILLE

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