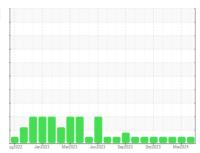


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



VOLVO Component
Transmission (Auto)

CASTROL TRANSMAX SYNTHETIC MV ATF (28 GAL)

Machine Id

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

F (28 GAL) ##2022 Jan2023 Mar2023 Jan2023 Step2023 Dec2023 Mar2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0921215	WC0791150	WC0791145
Sample Date		Client Info		01 Apr 2024	01 Mar 2024	01 Feb 2024
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	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	<1	0	0
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	1	1
Lead	ppm	ASTM D5185m	>50	2	0	<1
Copper	ppm	ASTM D5185m	>225	1	<1	0
Tin	ppm	ASTM D5185m	>10	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	95	97	85
Barium	ppm	ASTM D5185m	0	35	62	57
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm			<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	370	78	75	65
Phosphorus	ppm	ASTM D5185m	300	225	196	190
Zinc	ppm	ASTM D5185m	0	7	0	0
Sulfur	ppm	ASTM D5185m	1600	896	890	838
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	1	1
Sodium	ppm	ASTM D5185m		2	5	3
Potassium	ppm	ASTM D5185m	>20	2	<1	2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	297	349	468
Particles >6µm		ASTM D7647	>640	81	150	186
Particles >14µm		ASTM D7647	>80	11	14	16
Particles >21μm		ASTM D7647	>20	2	2	4
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/14/11	16/14/11	16/15/11
FLUID DEGRADA	ATION	method				history2

Acid Number (AN)

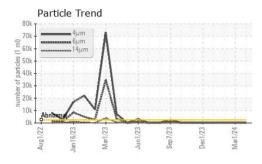
mg KOH/g ASTM D8045

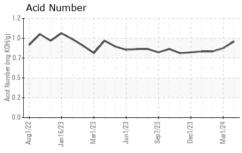
0.80

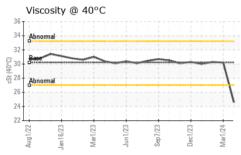
0.84 Contact/Location: Kristina Smith - HAWCHANC

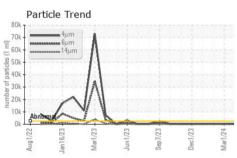


OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	ΓIFS	method	limit/base	current	historv1	history2

/isc @ 40°C	:St	ASTM D445	30.2	24.6	30.2	30.3

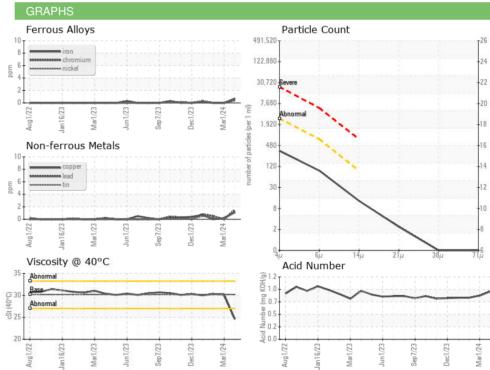
SAMPLE IMAGES

Bottom

Color











Certificate 12367

Laboratory Sample No.

: WC0921215 Lab Number : 06136329 Unique Number : 10955794

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 02 Apr 2024 **Tested** : 03 Apr 2024 Diagnosed

: 04 Apr 2024 - Don Baldridge

HUNTERSVILLE, NC US 28078 Contact: Kristina Smith k.smith@hawe.com T: (704)927-5610

HAWE HYDRAULICS - HUNTERSVILLE

13020 JAMESBURG DR SUITE A

* - 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)

Test Package : IND 2 (Additional Tests: PrtCount)

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

Contact/Location: Kristina Smith - HAWCHANC

F: (704)509-6302