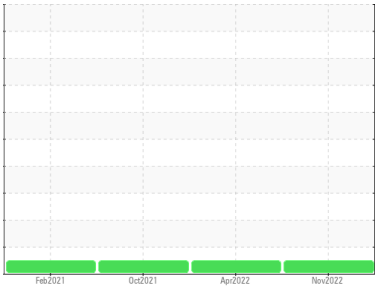
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
VOLKSWAGEN TDI
Component
Diesel Engine
Fluid
LIQUIMOLY 5W40 (4 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**WC0764201**	WC0666074	WC05373630
Sample Date		Client Info		**20 Nov 2022**	24 Apr 2022	10 Oct 2021
Machine Age	mls	Client Info		**370251**	360050	350070
Oil Age	mls	Client Info		**10201**	9980	9983
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	**<1.0**	<1.0	0.5
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	**40**	64	46
Chromium	ppm	ASTM D5185m	>20	**2**	2	1
Nickel	ppm	ASTM D5185m	>4	**2**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>20	**0**	8	6
Lead	ppm	ASTM D5185m	>40	**18**	6	5
Copper	ppm	ASTM D5185m	>330	**2**	3	<1
Tin	ppm	ASTM D5185m	>15	**3**	1	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**32**	50	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**15**	9	36
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**174**	23	18
Calcium	ppm	ASTM D5185m		**1211**	2868	3058
Phosphorus	ppm	ASTM D5185m		**641**	894	849
Zinc	ppm	ASTM D5185m		**620**	1079	1027
Sulfur	ppm	ASTM D5185m		**2099**	2332	2966

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**7**	8	10
Sodium	ppm	ASTM D5185m		**13**	1	1
Potassium	ppm	ASTM D5185m	>20	**20**	3	2

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	**1**	1.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	**12.7**	10.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.6**	18.5	17.6

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.2**	12.8	11.9
Base Number (BN)	mg KOH/g	ASTM D2896		**10.1**	10.8	9.82

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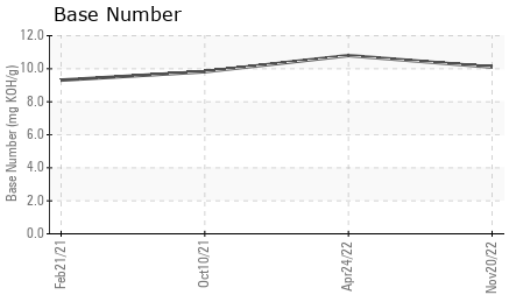
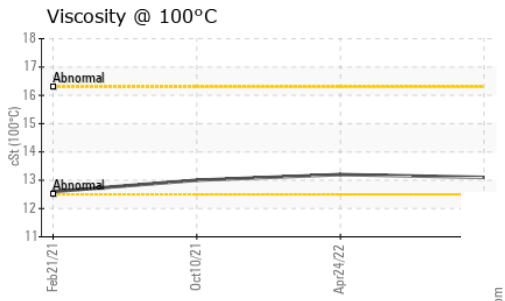
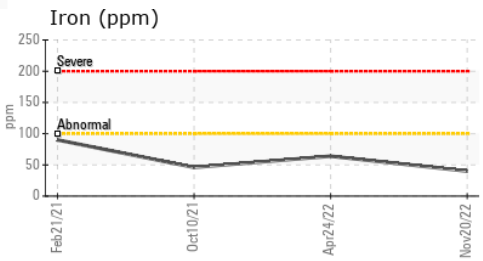


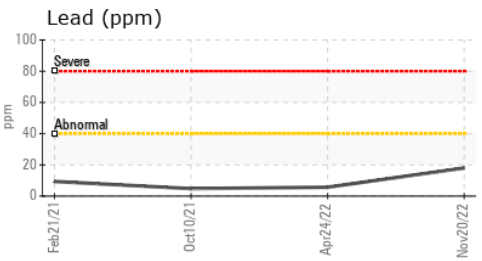


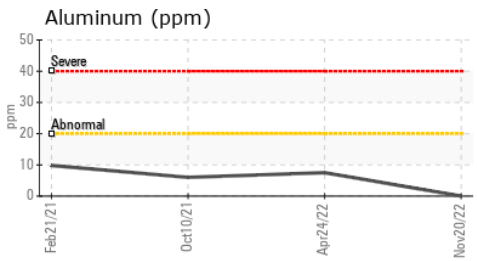
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

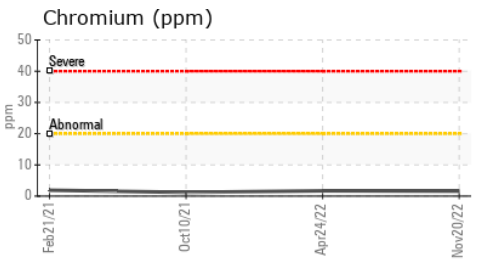
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445		**13.1**	13.2	13.0

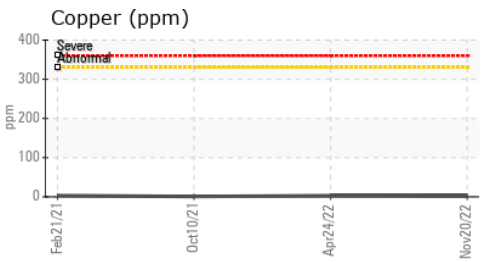
GRAPHS

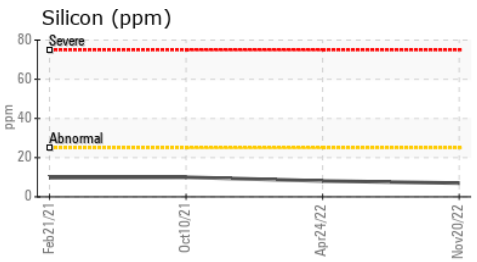


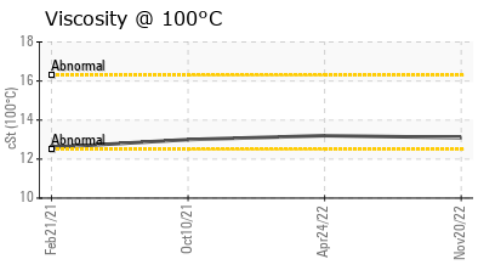


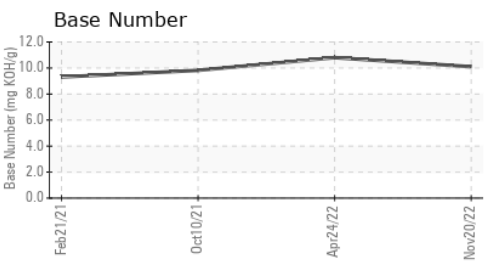












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0764201
Lab Number : 05702551
Unique Number : 10232125
Test Package : MOB 2

Received : 25 Nov 2022
Diagnosed : 30 Nov 2022
Diagnostician : Jonathan Hester

1431 ASHE AVE
DUNN, NC
US 28334
Contact: MICHAEL CASTRO
castro.michael.s@gmail.com
T:
F:

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)