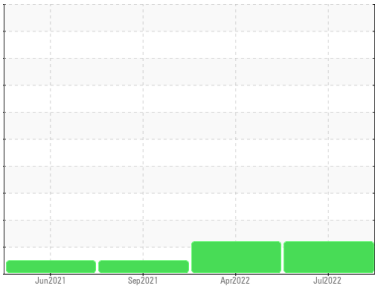
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
NOG SON [CONHER]
Machine Id
2008 VOLVO TRC-108 AMSA
Component
Front Diesel Engine
Fluid
CHEVRON 15W40 (50 LTR)

DIAGNOSIS

Recommendation
We recommend that you drain the oil from the component if this has not already been done. 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 level is low. The oil is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL0010196**	KL0010176	KL0007603
Sample Date		Client Info		**25 Jul 2022**	23 Apr 2022	13 Sep 2021
Machine Age	kms	Client Info		**2132634**	2101891	2027011
Oil Age	kms	Client Info		**138680**	107937	33057
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	**159**	145	42
Chromium	ppm	ASTM D5185m	>5	**2**	2	1
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**4**	4	2
Lead	ppm	ASTM D5185m	>150	**2**	3	2
Copper	ppm	ASTM D5185m	>90	**2**	2	<1
Tin	ppm	ASTM D5185m	>5	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**8**	6	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**14**	10	4
Manganese	ppm	ASTM D5185m		**1**	1	<1
Magnesium	ppm	ASTM D5185m		**482**	570	985
Calcium	ppm	ASTM D5185m		**2860**	2913	1638
Phosphorus	ppm	ASTM D5185m		**1012**	1139	954
Zinc	ppm	ASTM D5185m		**1244**	1373	1251
Sulfur	ppm	ASTM D5185m		**3651**	3516	2839

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	**8**	8	5
Sodium	ppm	ASTM D5185m	>50	**9**	6	7
Potassium	ppm	ASTM D5185m	>20	**6**	6	3
Water	%	ASTM D6304	>0.2	**NEG**	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	**6.8**	5.1	3.5
Nitration	Abs/cm	*ASTM D7624	>20	**19.6**	14.7	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	**38.6**	31.9	24.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.5**	16.2	12.3
Base Number (BN)	mg KOH/g	ASTM D2896		▲ **0.0**	▲ 0.0	8.7

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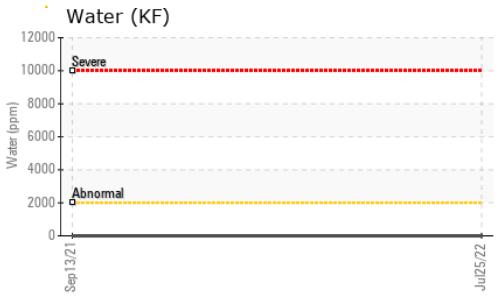
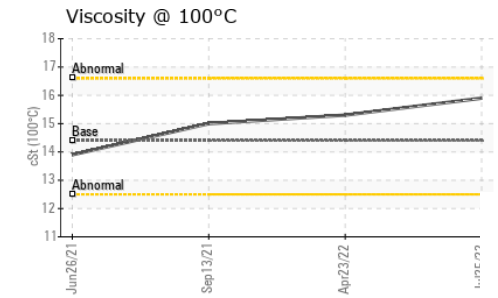
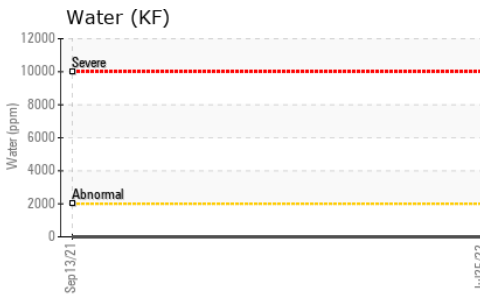


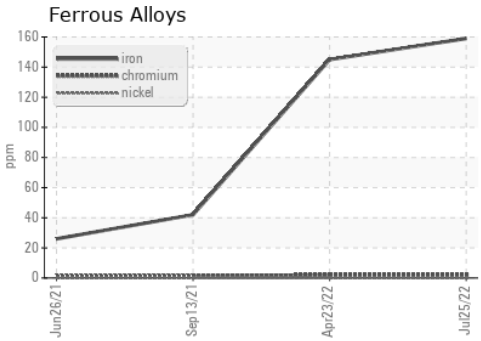


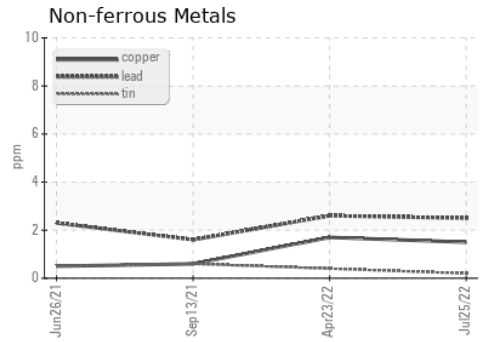


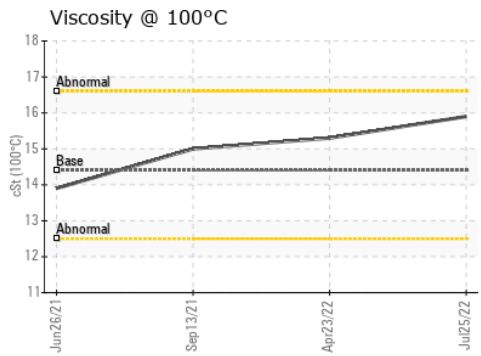
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

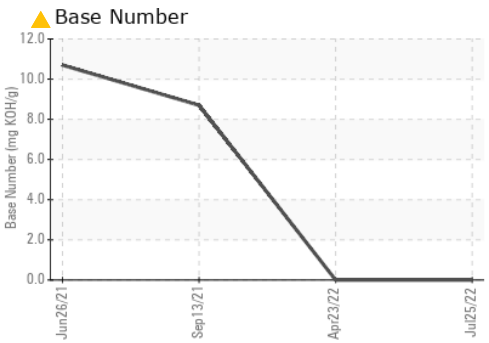
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	**15.9**	15.3	15.0

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010196
Lab Number : 05687783
Unique Number : 10207355
Test Package : FLEET (Additional Tests: KF)

Received : 08 Nov 2022
Tested : 10 Nov 2022
Diagnosed : 10 Nov 2022 - Don Baldridge

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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