

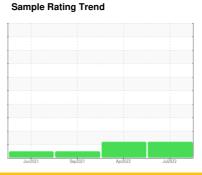
OIL ANALYSIS REPORT

NOG SON [CONHER] Machine Id 2008 VOLVO TRC-108 AMSA

Component

Front Diesel Engine

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

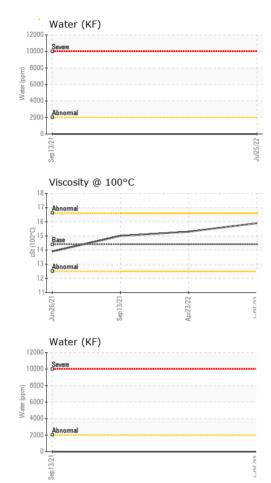
Fluid Condition

The BN level is low. The oil is no longer serviceable.

SAMPLE INFORM	MATION	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	V	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
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 8	history1	history2 2
	ppm ppm		limit/base			
Boron	• •	ASTM D5185m	limit/base	8	6	2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	8 0	6	2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14	6 0 10	2 0 4
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1	6 0 10	2 0 4 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1 482	6 0 10 1 570	2 0 4 <1 985
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1 482 2860	6 0 10 1 570 2913	2 0 4 <1 985 1638
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1 482 2860 1012	6 0 10 1 570 2913 1139	2 0 4 <1 985 1638 954
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1 482 2860 1012	6 0 10 1 570 2913 1139 1373	2 0 4 <1 985 1638 954 1251
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		8 0 14 1 482 2860 1012 1244 3651	6 0 10 1 570 2913 1139 1373 3516	2 0 4 <1 985 1638 954 1251 2839
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	8 0 14 1 482 2860 1012 1244 3651 current	6 0 10 1 570 2913 1139 1373 3516 history1	2 0 4 <1 985 1638 954 1251 2839 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >35	8 0 14 1 482 2860 1012 1244 3651 current	6 0 10 1 570 2913 1139 1373 3516 history1	2 0 4 <1 985 1638 954 1251 2839 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >35 >50 >20	8 0 14 1 482 2860 1012 1244 3651 current 8	6 0 10 1 570 2913 1139 1373 3516 history1 8 6	2 0 4 <1 985 1638 954 1251 2839 history2 5 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >35 >50 >20	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 6	2 0 4 <1 985 1638 954 1251 2839 history2 5 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >35 >50 >20 >0.2	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6 NEG	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 6	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304	limit/base >35 >50 >20 >0.2 limit/base	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6 NEG	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 NEG	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >35 >50 >20 >0.2 limit/base >7.5	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6 NEG current	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 NEG history1 5.1	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7824	limit/base >35 >50 >20 >0.2 limit/base >7.5 >20	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6 NEG current 6.8 19.6	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 NEG history1 5.1 14.7	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG history2 3.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7624 *ASTM D76145	limit/base >35 >50 >20 >0.2 limit/base >7.5 >20 >30	8 0 14 1 482 2860 1012 1244 3651 current 8 9 6 NEG current 6.8 19.6 38.6	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 NEG history1 5.1 14.7 31.9	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG history2 3.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >35 >50 >20 >0.2 limit/base >7.5 >20 >30 limit/base	8 0 14 1 482 2860 1012 1244 3651	6 0 10 1 570 2913 1139 1373 3516 history1 8 6 NEG history1 5.1 14.7 31.9 history1	2 0 4 <1 985 1638 954 1251 2839 history2 5 7 3 NEG history2 3.5 11 24.8

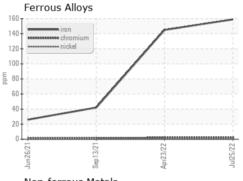


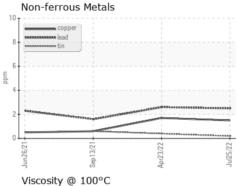
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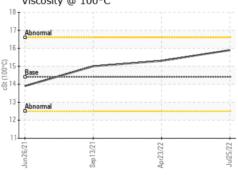


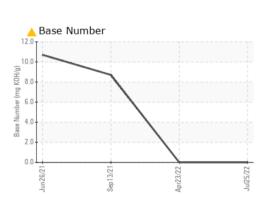
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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











Laboratory Sample No. Lab Number : 05687783

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0010196

Received **Tested** Unique Number : 10207355

Diagnosed Test Package: FLEET (Additional Tests: KF)

: 10 Nov 2022

: 08 Nov 2022

: 10 Nov 2022 - Don Baldridge

MX 83140 Contact: EDUARDO GARCIA egarcia.comsa@gmail.com T: (526)622-1581 x:81

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)

Report Id: CONHERKL [WUSCAR] 05687783 (Generated: 02/14/2024 15:48:25) Rev: 1

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