

OIL ANALYSIS REPORT

GUAY SON [CONHER] CHINO 1 IBACO BM CHINO I AUX-1 Component

Diesel Engine XTRA REV 15W40 (8 LTR)

Recommendation

Resample at the next service interval to monitor.

Wear

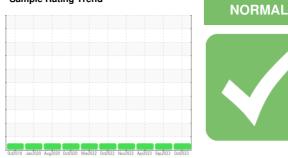
All component wear rates are normal.

Contamination

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

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.



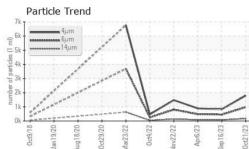
Sample Rating Trend

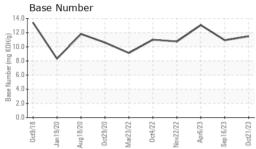


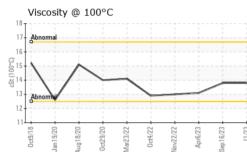
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013334	KL0012795	KL0011394
Sample Date		Client Info		21 Oct 2023	16 Sep 2023	06 Apr 2023
Machine Age	hrs	Client Info		4675	3979	3929
Oil Age	hrs	Client Info		100	50	192
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	3	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	1	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	3
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		16	15	28
Calcium	ppm	ASTM D5185m		3450	3809	3828
Phosphorus	ppm	ASTM D5185m		911	994	947
Zinc	ppm	ASTM D5185m		1083	1211	1233
Sulfur	ppm	ASTM D5185m		4257	4777	4580
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	3
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.2	5.4	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.0	19.0	16.4

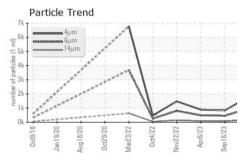


OIL ANALYSIS REPORT









FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1792	827	887
Particles >6µm		ASTM D7647	>5000	976	450	483
Particles >14µm		ASTM D7647	>640	166	77	82
Particles >21µm		ASTM D7647	>160	56	26	28
Particles >38µm		ASTM D7647	>40	9	4	4
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/16	17/15	16/13	16/14
FLUID DEGRADA		method	limit/base		history1	history2
				current 8.1	11.0	10.3
Oxidation	Abs/.1mm	*ASTM D7414	>25	-		
Base Number (BN)	mg KOH/g	ASTM D2896		11.48	10.93	13.06
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 PROPERT		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	IIIII/Dase	13.8	13.8	13.1
		A3 HVI D443		13.0	13.0	13.1
	001					
GRAPHS	001			Particle Count	ŀ	
GRAPHS Ferrous Alloys				Particle Count	t	T ²⁶
GRAPHS Ferrous Alloys			491,520- 122,880-	Particle Count	t	
GRAPHS Ferrous Alloys			122,880	Particle Count	t	-24
GRAPHS Ferrous Alloys			122,880 30,720	Particle Count	t	+24 +22
GRAPHS Ferrous Alloys		2/22 6/23	122,880 30,720	Particle Count		-22
GRAPHS Ferrous Alloys	Mar23/22	Nov22/22 Apr6/23 Sep16/23	122,880 30,720	Particle Count		+24 +22
GRAPHS Ferrous Alloys	Mar23/22 0ct4/22	Nov22/22 Apri6/23 Sep16/23	122,880 30,720	Particle Count		+24 +22
GRAPHS Ferrous Alloys	Mar23/22 0ct4/22	Nov22722 Apr6/23 Sep 16/23	122,880 30,720	Particle Count		+24 +22
GRAPHS Ferrous Alloys	Mar23/22 0ct4/22	Apr6/23	122,880 30,720 定 7,680 20 20 20 20 20 20 20 20 20 20 20 20 20	Particle Count		-24 -22 -20 -18 -16 -14
GRAPHS Ferrous Alloys	Mar23/22 0ct4/22	Nov2222 Apr6/23 Sep16/23	122,880 30,720	Particle Count		-24 -22 -20 -18 -16 -14
GRAPHS Ferrous Alloys	Mar23/22 0ct4/22	Apr6/222 Sep16/23	122,880 30,720 20 20 20 20 20 20 20 20 20 20 20 20 2	Particle Count		-24 -22 -20 -18 -16 -14
GRAPHS Ferrous Alloys	6 Mat23/22	2 00	122,880 30,720 20 20 20 20 20 20 20 20 20 20 20 20 2			-24 -22 -20 -18 -16 -14 -12
GRAPHS Ferrous Alloys	6 Mat23/22	2 00	122,880 30,720 20 20 20 20 20 20 20 20 20 20 20 20 2			-24 -22 -20 -18 -16 -14 -14
GRAPHS Ferrous Alloys	Mar23/22 S Mar23/22 Oct4/22 Oct4/22	2 00	122,880 30,720 TE 7,680 527,720 TE 1,920 30,720 1,920 480 50 1,920 480 50 1,920 480 50 1,920 480 480 50 1,920 480 480 50 1,020 50 50 1,020 50 50 50 50 50 50 50 50 50 50 50 50 50	Servernal 64	14μ 21μ	-24 -22 -20 -18 -16 -14 -14
GRAPHS Ferrous Alloys Ferrous Alloys Control of the second seco	Mar23/22 S Mar23/22 Oct4/22 Oct4/22	2 00	122,880 30,720 20,720 20,00000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,00000000	Bereemal	14μ 21μ	-24 -22 -20 -18 -16 -14 -12 -10 -8 6
GRAPHS Ferrous Alloys	Mar23/22 S Mar23/22 Oct4/22 Oct4/22	2 00	122,880 30,720 20,720 20,00000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,00000000	Servernal 64	14μ 21μ	-24 -22 -20 -18 -16 -14 -12 -10 -8 6
GRAPHS Ferrous Alloys	Mar23/22 S Mar23/22 Oct4/22 Oct4/22	2 00	122,880 30,720 20,720 20,00000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,00000000	Servernal 64	14μ 21μ	-24 -22 -20 -18 -16 -14 -12 -10 -8 6
GRAPHS Ferrous Alloys Ferrous Alloys GRAPHS Non-ferrous Metal Graphic Control of Control Graphic Control of Control of Control Graphic Control of Control Graphic Control of Control Graphic Control of Control of Control of Control Graphic Control of C	Mar23/22 S Mar23/22 Oct4/22 Oct4/22	2 00	122,880 30,720 20 20 20 20 20 20 20 20 20 20 20 20 2	Servernal 64	14μ 21μ	-24 -22 -20 -18 -16 -14 -12 -10 -8 -8

0ct9/18

Jan 19/20 ug18/20 - 0ct29/20 Mar23/22 0ct4/22 v22/22

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONOR Laboratory Sample No. : KL0013334 Received : 01 Nov 2023 JUAREZ 348 Lab Number : 05996368 Diagnosed : 03 Nov 2023 HERMOSILLO, Unique Number : 10724728 Diagnostician : Don Baldridge MX 83140 Test Package : MOB 2 (Additional Tests: PrtCount) Contact: EDUARDO GARCIA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. egarcia.comsa@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (526)622-1581 x:81 F: x:

Oct4/22 -

Nov22/22

Apr6/23 -Sep16/23 -0ct21/23 -

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

0ct29/20 Mar23/22

Aug 18/20

0ct9/18 -Jan 19/20 -

Submitted By: EDUARDO GARCIA

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Sep16/23 0ct21/23

Apr6/23