

OIL ANALYSIS REPORT

Area GUAY SON [CONHER] Machine Id MAIN ENGINE Component

Bottom Diesel Engine Fluid Xtra Rev SAE 15W40 (160 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

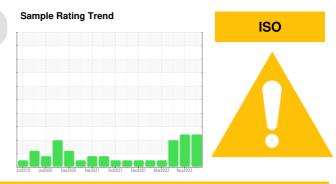
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

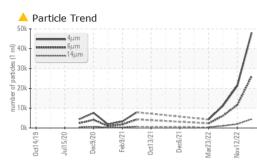
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

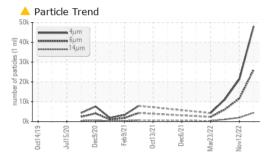


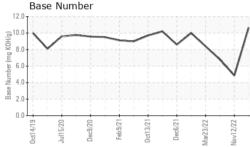
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012838	KL0011230	KL0010141
Sample Date		Client Info		20 Sep 2023	12 Nov 2022	05 Oct 2022
Machine Age	hrs	Client Info		11068	10850	10060
Oil Age	hrs	Client Info		5	790	233
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
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	15	30	18
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	6	7	3
Copper	ppm	ASTM D5185m	>330	10	5	3
Tin	ppm	ASTM D5185m	>15	2	3	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base	0 current	0 history1	0 history2
	ppm ppm		limit/base	-	-	-
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 10	history1 116	history2 172
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 10 0	history1 116 0	history2 172 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 10 0 <1	history1 116 0 75	history2 172 0 87
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 10 0 <1 <1	history1 116 0 75 <1	history2 172 0 87 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 10 0 <1 <1 6	history1 116 0 75 <1 330	history2 172 0 87 <1 361
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	current 10 0 <1 <1 6 2598	history1 116 0 75 <1 330 1803	history2 172 0 87 <1 361 1659
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	current 10 0 <1 <1 6 2598 1136	history1 116 0 75 <1 330 1803 781	history2 172 0 87 <1 361 1659 877
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 10 0 <1 <1 6 2598 1136 1385	history1 116 0 75 <1 330 1803 781 933	history2 172 0 87 <1 361 1659 877 1030
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		current 10 0 <1 <1 6 2598 1136 1385 3825 current 12	history1 116 0 75 <1 330 1803 781 933 3439 history1 8	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base >25	current 10 0 <1 <1 6 2598 1136 1385 3825 current	history1 116 0 75 <1 330 1803 781 933 3439 history1	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	current 10 0 <1 <1 6 2598 1136 1385 3825 current 12	history1 116 0 75 <1 330 1803 781 933 3439 history1 8	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base >25	current 10 0 <1 <1 6 2598 1136 1385 3825 current 12 3	history1 116 0 75 <1 330 1803 781 933 3439 history1 8 6	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >20	current 10 0 <1 <1 6 2598 1136 1385 3825 current 12 3 5	history1 116 0 75 <1 330 1803 781 933 3439 history1 8 6 6	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8 2 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	current 10 0 <1 <1 2598 1136 1385 3825 current 12 3 5 current	history1 116 0 75 <1 330 1803 781 933 3439 history1 8 6 6 6 6 6 history1	history2 172 0 87 <1 361 1659 877 1030 3545 history2 8 2 2 history2

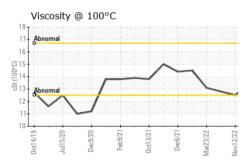


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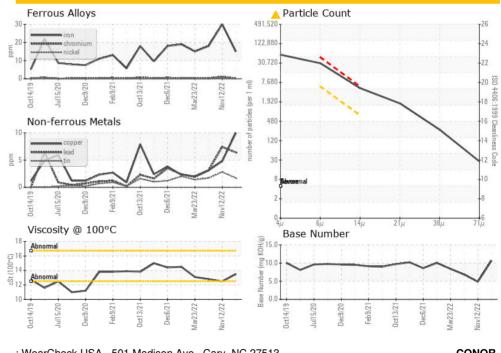




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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		48083	21338	11244
Particles >6µm		ASTM D7647	>5000	26194	▲ 11624	6 125
Particles >14µm		ASTM D7647	>640	4458	1 978	1042
Particles >21µm		ASTM D7647	>160	1502	666	A 351
Particles >38µm		ASTM D7647	>40	232	1 03	5 4
Particles >71µm		ASTM D7647	>10	24	🔺 11	6
Oil Cleanliness		ISO 4406 (c)	>19/16	22/19	🔺 21/18	▲ 20/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	5.7	24.7	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		10.65	4.85	6.81
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	NONE NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal Precipitate	scalar scalar	*Visual *Visual	NONE NONE	NONE	NONE	NONE
Yellow Metal Precipitate Silt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NORE	NONE NONE NONE NONE NORE
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORE NORML	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORML NORML
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NORML NORML NEG





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONOR Laboratory Sample No. Received : 29 Sep 2023 JUAREZ 348 : KL0012838 Lab Number Diagnosed : 03 Oct 2023 HERMOSILLO, : 05964781 Unique Number : 10671332 Diagnostician : Angela Borella 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:

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

