

OIL ANALYSIS REPORT

Area GUAY SON [CONHER] Machine Id Máquina principal Mantito I Component

Diesel Engine Fluid XTRA REV 15W40 (160 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

🔺 Wear

A sharp increase in the copper level is noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. There is a high amount of particulates present in the oil. Light fuel dilution occurring.

Fluid Condition

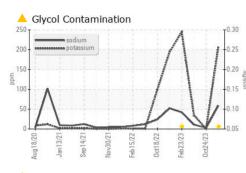
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

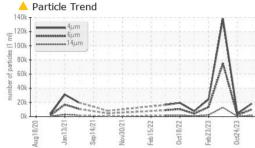
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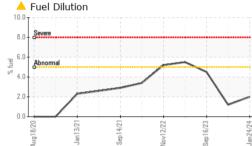
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013472	KL0013324	KL0012814
Sample Date		Client Info		24 Jan 2024	24 Oct 2023	16 Sep 2023
Machine Age	hrs	Client Info		0	10780	10291
Oil Age	hrs	Client Info		404	177	5
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26	5	17
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>40	4	<1	2
Copper	ppm	ASTM D5185m	>330	<u> </u>	<1	4
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		•	0	0
Oddinium	ppm	ASTIVI DOTODITI		0	0	0
ADDITIVES	ppin	method	limit/base	current	history1	history2
	ppm		limit/base	-	-	-
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 0
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 <1	history1 0 0	history2 0 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 <1 30	history1 0 0 0 0 0 9	history2 0 0 4
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 <1 30 0	history1 0 0 0 0 0	history2 0 0 4 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	current 0 <1 30 0 7 2630 1176	history1 0 0 0 0 9 3114 926	history2 0 0 4 <1 7 2639 1086
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	Current 0 <1 30 0 7 2630 1176 1303	history1 0 0 0 0 0 9 3114	history2 0 0 4 <1 7 2639 1086 1324
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 0 <1 30 0 7 2630 1176	history1 0 0 0 0 9 3114 926	history2 0 0 4 <1 7 2639 1086
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	Current 0 <1 30 0 7 2630 1176 1303	history1 0 0 0 0 9 3114 926 786	history2 0 0 4 <1 7 2639 1086 1324
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		current 0 <1 30 0 7 2630 1176 1303 3664	history1 0 0 0 0 9 3114 926 786 5174	history2 0 0 4 <1 7 2639 1086 1324 4172
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	limit/base	current 0 <1 30 0 7 2630 1176 1303 3664 current	history1 0 0 0 0 9 3114 926 786 5174 history1	history2 0 0 4 <1 7 2639 1086 1324 4172 history2
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 <1 30 0 7 2630 1176 1303 3664 current 11 59 ▲ 208	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 9 31114 926 786 5174 history1 7 3 0	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25	Current 0 <1 30 0 7 2630 1176 1303 3664 current 11 ▲ 59 ≥08 ▲ 2.0	history1 0 0 0 0 0 0 0 0 0 0 0 0 9 3114 926 786 5174 history1 7 3 0 1.2	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35 ▲ 4.5
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	limit/base >25 >20	Current 0 <1 30 0 7 2630 1176 1303 3664 current 11 59 ▲ 208	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 9 31114 926 786 5174 history1 7 3 0	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >25 >20	Current 0 <1 30 0 7 2630 1176 1303 3664 current 11 ▲ 59 ≥08 ▲ 2.0	history1 0 0 0 0 0 0 0 0 0 0 0 0 9 3114 926 786 5174 history1 7 3 0 1.2	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35 ▲ 4.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >20 >5	current 0 <1 30 0 7 2630 1176 1303 3664 current 11 ▲ 59 ▲ 208 ▲ 2.0 ▲ 0.06	history1 0 0 0 0 0 0 0 0 0 0 0 0 9 3114 926 786 5174 history1 7 3 0 1.2 NEG	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35 ▲ 4.5 NEG
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >20 >5 limit/base >3	current 0 <1 30 0 7 2630 1176 1303 3664 current 11 ▲ 59 ▲ 208 ▲ 2.0 ▲ 0.06	history1 0 0 0 0 0 0 0 0 0 9 3114 926 786 5174 history1 7 3 0 1.2 NEG history1	history2 0 0 4 <1 7 2639 1086 1324 4172 history2 13 11 35 ▲ 4.5 NEG history2

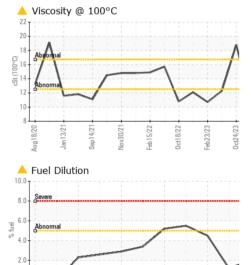


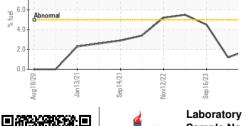
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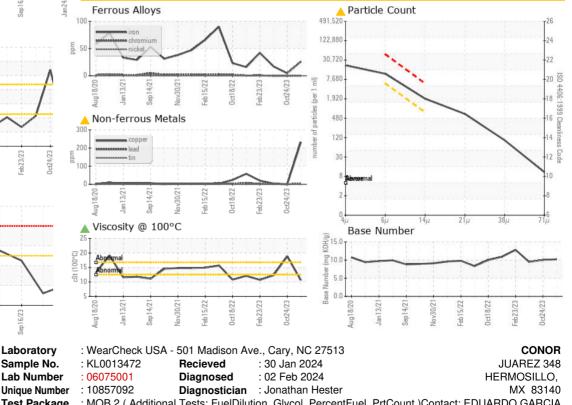








GRAPHS



 Certificate L2367
 Test Package
 : MOB 2 (Additional Tests: FuelDilution, Glycol, PercentFuel, PrtCount) Contact: EDUARDO GARCIA

 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

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

Submitted By: EDUARDO GARCIA

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