

OIL ANALYSIS REPORT

Area GUAY SON [CONHER] IBACO BM COZAR XIX

Diesel Engine Fluid RALOY 15W40 (160 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

Wear

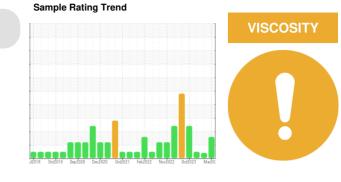
All component wear rates are normal.

Contamination

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

Fluid Condition

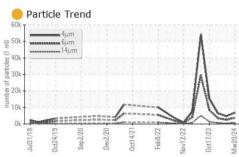
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

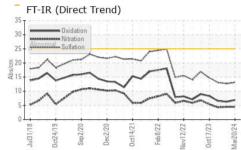


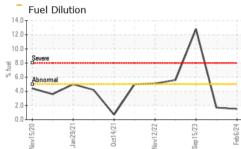
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0014529	KL0014149	KL0013429
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		0	0	19098
Oil Age	hrs	Client Info		284	536	232
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINATION	۷	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	3	5
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	4
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		2	0	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		4	5	11
Calcium	ppm	ASTM D5185m		2790	2537	2763
Phosphorus	ppm	ASTM D5185m		1202	1024	1078
Zinc	ppm	ASTM D5185m		1391	1245	1243
Sulfur	ppm	ASTM D5185m		4230	2949	4186
CONTAMINANTS		method	limit/base	current		
Silicon	ppm	ASTM D5185m	>25	11	7	10
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	11 5	7 <1	10 <1
Sodium Potassium	ppm ppm		>25 >20	5 17	<1 5	<1 6
Sodium	ppm	ASTM D5185m	>20	5	<1	<1
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	5 17	<1 5	<1 6
Sodium Potassium Fuel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >5	5 17 <1.0	<1 5 1.5	<1 6 <1.0
Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >5 limit/base >3	5 17 <1.0 current	<1 5 1.5 history1	<1 6 <1.0 history2

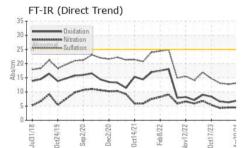


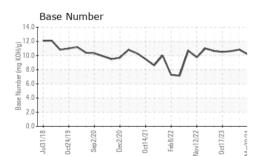
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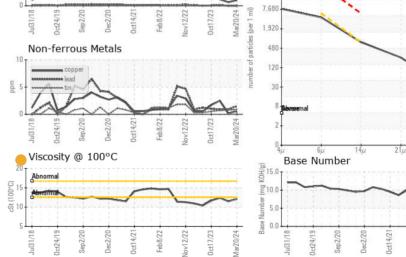








FLUID CLEANLIN	IESS	method	limit/base	current	history1	history
Particles >4µm		ASTM D7647		6942	4628	6507
Particles >6µm		ASTM D7647	>5000	3782	2521	3545
Particles >14µm		ASTM D7647	>640	644	429	603
Particles >21µm		ASTM D7647	>160	217	145	203
Particles >38µm		ASTM D7647	>40	33	22	31
Particles >71µm		ASTM D7647	>10	3	2	3
Oil Cleanliness		ISO 4406 (c)	>19/16	9/17	19/16	19/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.9	6.3	6.6
Base Number (BN)	mg KOH/g	ASTM D2896		10.15	10.82	10.62
VISUAL		method	limit/base	current	history1	history
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	TIES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445		12.1	11.5	12.4
GRAPHS						
Ferrous Alloys			491,520	Particle Coun	t	T
30 - iron	\backslash		122,880			
	L	1-	30,720	ļ		
0		2 2	→ = 7,680		·	-
Jul31/18 0ct24/19 Sep2/20 Dec2/20	0ct14/21	Peb 6/22 - Nov12/22 - Oct17/23 -	42/02/mm 42/02/mm 42/02/mm 42/02/mm 480 480 480 480 480 480 480 480 480 480			
Non-ferrous Metal	s	-	signation 480			
10 T		1				
copper			a 120			



: 18 Apr 2024

: 23 Apr 2024

: 23 Apr 2024 - Jonathan Hester

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

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

Received

Diagnosed

Tested

CONOR JUAREZ 348 HERMOSILLO, MX 83140 Contact: EDUARDO GARCIA egarcia.comsa@gmail.com T: (526)622-1581 x:81 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

38,

Report Id: CONHERKL [WUSCAR] 06153308 (Generated: 04/23/2024 16:15:48) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06153308

Unique Number : 10983386

: KL0014529

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.

Submitted By: EDUARDO GARCIA

-eh8/77 Jov12/22

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Mar20/24