

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area GUAY SON [CONHER] IBACO NANDO

Bottom 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. Fuel content negligible.

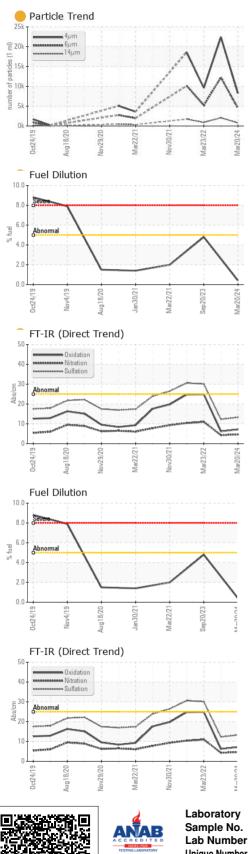
Fluid Condition

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

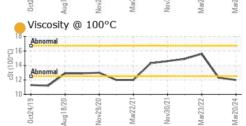
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0014193	KL0012844	KL0009215
Sample Date		Client Info		20 Mar 2024	20 Sep 2023	23 Mar 2022
Machine Age	hrs	Client Info		11815	10886	0
Oil Age	hrs	Client Info		313	7	447
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
CONTAMINATIO	N	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	5	7	63
Chromium	ppm	ASTM D5185m	>20	0	0	5
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	3	6
Lead	ppm	ASTM D5185m	>40	<1	2	6
Copper	ppm	ASTM D5185m	>330	<1	5	72
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	63
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	114
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		4	5	566
Calcium	ppm	ASTM D5185m		2795	2525	1669
Phosphorus	ppm	ASTM D5185m		1170	1123	901
Zinc	ppm	ASTM D5185m		1349	1366	1080
Sulfur	ppm	ASTM D5185m		4056	3485	2650
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	9	18
Sodium	ppm	ASTM D5185m		0	3	55
Potassium	ppm	ASTM D5185m	>20	1	2	4
Fuel	%	ASTM D3524	>5	0.4	4.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	1.2
Nitration	Abs/cm	*ASTM D7624		4.6	4.3	11.0
Sulfation	Abs/.1mm	*ASTM D7415		13.3	12.3	30.1

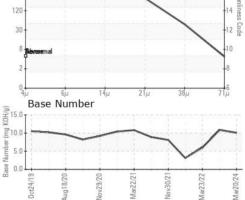


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FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	mmbbabb	8273	22410	9609
Particles >6μm		ASTM D7647 ASTM D7647	> 5000	4507	12208	5235
Particles >14µm		ASTM D7647 ASTM D7647	>640	767	2078	891
Particles >21µm		ASTM D7647		258	▲ 700	300
Particles >38µm		ASTM D7647		40	108	46
Particles >71µm		ASTM D7647		4	11	5
Dil Cleanliness		ISO 4406 (c)		- 19/17	▲ 21/18	20/17
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	7.2	6.2	24.9
Base Number (BN)	mg KOH/g	ASTM D2896	20	10.08	10.82	5.98
()	ing Konig		11 1. 1			
VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow 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	history2
/isc @ 100°C	cSt	ASTM D445		12.0	1 2.3	15.6
GRAPHS						
Ferrous Alloys			Particle Cou	nt	т26	
			491,520			
iron			100.000			
		M	122,880			-24
iron	\rightarrow	$ \land $	122,880			+24 +22
iron chromium nickel	21	23	30,720		×.	-22
iron chromium nickel	lar22/21	ov30/21	30,720		×.	-22
Aug 18/20 Nov29/20	Mar22/21	Nov30/21	30,720	-		+22
iron, coromium hickel 6U45290 Non-ferrous Metal		CZ/CZ/PWW	30,720	-		-22
iron, coromium hickel 6U45290 Non-ferrous Metal		Nov30/21	30,720	-		-22 -20 -18 -16 -14
Non-ferrous Metal		IZ/IGV/N	30,720 97,680 1,920 97,680 1,920 480 480			-22 -20 -18
Non-ferrous Metal		Nov30/21	30,720 7,680 1,920 1,920 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,92			-22 -20 -18 -16 -14 -12
Oct24/19 Aug18/20 Nov29/20		ov30/21	30,720 7,680 1,920 1,920 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,920 1,920 480 1,92			-22 -20 -18 -16 -14





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONOR Received JUAREZ 348 : KL0014193 : 18 Apr 2024 Lab Number : 06153289 Tested : 23 Apr 2024 HERMOSILLO, Unique Number : 10983367 Diagnosed : 23 Apr 2024 - Don Baldridge MX 83140 Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount) Contact: EDUARDO GARCIA Certificate 12367 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:

Report Id: CONHERKL [WUSCAR] 06153289 (Generated: 04/23/2024 10:13:55) Rev: 1

Submitted By: EDUARDO GARCIA

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