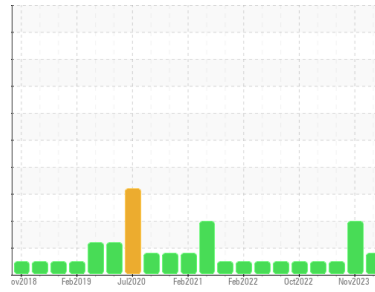




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
GUAY SON [CONHER]
 Machine Id
IBACO BM ISMAR II AUX-1
 Component
Diesel Engine
 Fluid
RALOY 15W40 (8 LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

Wear

Cylinder, crank, or cam shaft wear is indicated.

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0014206	KL0013400	KL0012851
Sample Date	Client Info		20 Mar 2024	14 Nov 2023	20 Sep 2023
Machine Age	hrs	Client Info	0	0	17025
Oil Age	hrs	Client Info	220	200	72
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	▲ 3.3	1.9
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	▲ 133	▲ 108	14
Chromium	ppm	ASTM D5185m >20	4	2	<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	7	1	3
Lead	ppm	ASTM D5185m >40	2	1	0
Copper	ppm	ASTM D5185m >330	20	2	<1
Tin	ppm	ASTM D5185m >15	3	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	41	4	0
Barium	ppm	ASTM D5185m	4	<1	0
Molybdenum	ppm	ASTM D5185m	7	2	<1
Manganese	ppm	ASTM D5185m	1	1	<1
Magnesium	ppm	ASTM D5185m	22	11	4
Calcium	ppm	ASTM D5185m	3302	2816	2658
Phosphorus	ppm	ASTM D5185m	983	1038	1106
Zinc	ppm	ASTM D5185m	1148	1306	1356
Sulfur	ppm	ASTM D5185m	2961	3322	3679

CONTAMINANTS

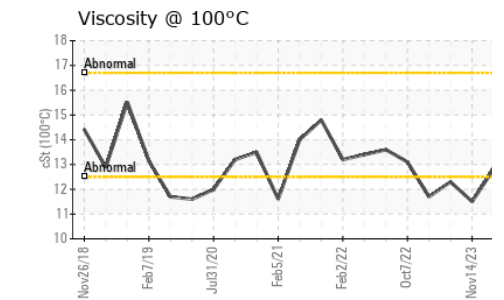
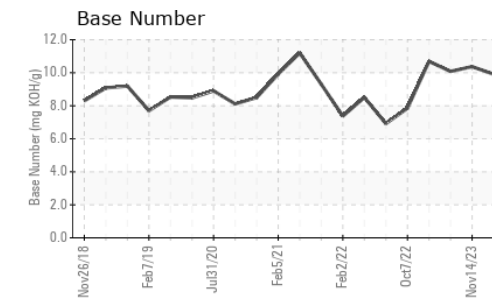
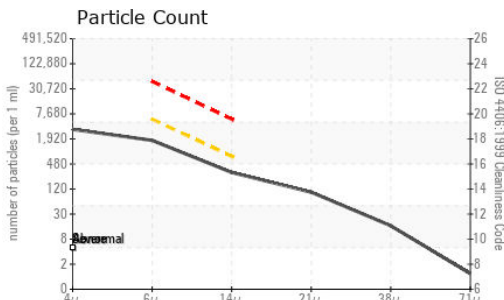
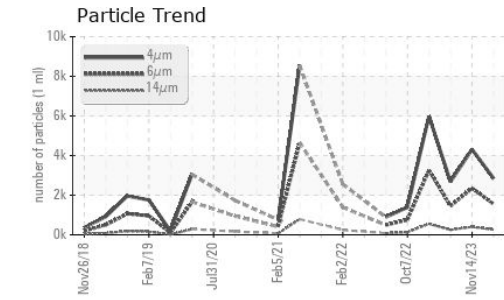
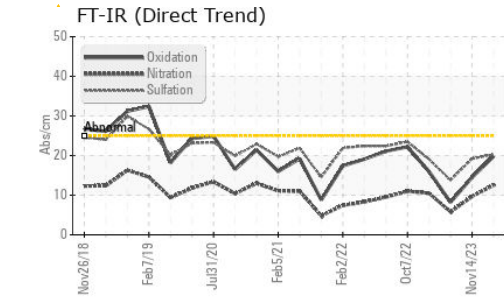
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	18	12	8
Sodium	ppm	ASTM D5185m	3	0	<1
Potassium	ppm	ASTM D5185m >20	2	4	2

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.6	0.1
Nitration	Abs/cm	*ASTM D7624 >20	12.5	9.7	5.8
Sulfation	Abs.1mm	*ASTM D7415 >30	20.3	19.2	13.8



OIL ANALYSIS REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014206
Lab Number : 06153314
Unique Number : 10983392
Test Package : MOB 2 (Additional Tests : PrtCount)

Received : 18 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Jonathan Hester

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140

Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com

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.

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

T: (526)622-1581 x:81

F: x:

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2845	4315	2680
Particles >6µm	ASTM D7647	>5000	1550	2351	1460
Particles >14µm	ASTM D7647	>640	264	400	248
Particles >21µm	ASTM D7647	>160	89	135	84
Particles >38µm	ASTM D7647	>40	14	21	13
Particles >71µm	ASTM D7647	>10	1	2	1
Oil Cleanliness	ISO 4406 (c)	>19/16	18/15	18/16	18/15

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	*ASTM D7414	>25	19.8	14.5	8.2
Base Number (BN)	mg KOH/g	ASTM D2896		9.91	10.37	10.08

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.8	11.5	12.3

GRAPHS

