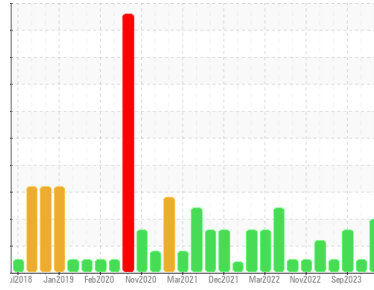




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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 high amount of particulates present in the oil.

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	KL0014209	KL0014142	KL0012876
Sample Date	Client Info	20 Mar 2024	06 Feb 2024	21 Sep 2023
Machine Age	hrs	0	0	19645
Oil Age	hrs	120	24	28
Oil Changed	Client Info	Not Chngd	Not Chngd	Changed
Sample Status		ABNORMAL	NORMAL	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
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	23	1	8
Chromium	ppm ASTM D5185m >20	2	0	2
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	5	1	4
Lead	ppm ASTM D5185m >40	<1	<1	<1
Copper	ppm ASTM D5185m >330	1	0	<1
Tin	ppm ASTM D5185m >15	1	<1	1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	47	60	0
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	37	39	1
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	441	465	14
Calcium	ppm ASTM D5185m	2166	1509	3381
Phosphorus	ppm ASTM D5185m	991	821	867
Zinc	ppm ASTM D5185m	1233	1015	1015
Sulfur	ppm ASTM D5185m	3348	2568	5411

CONTAMINANTS

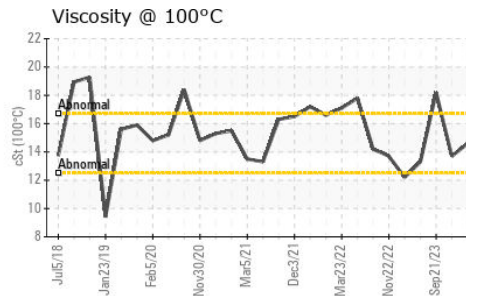
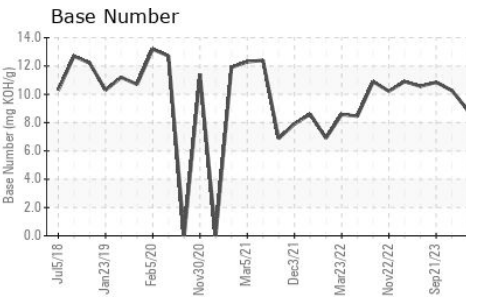
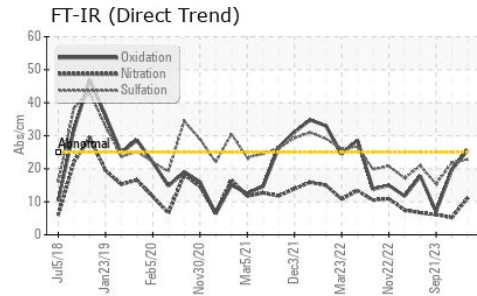
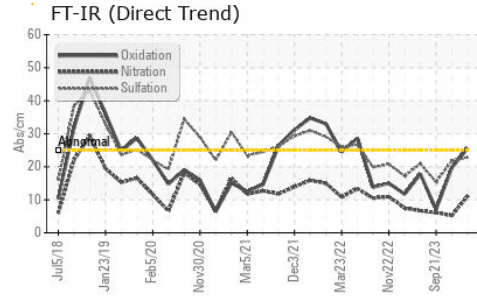
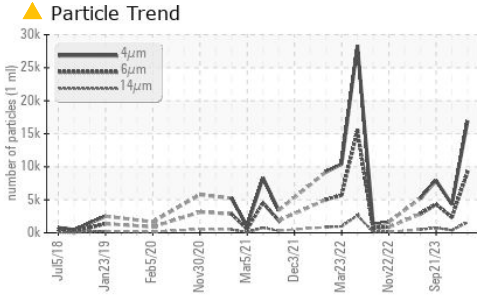
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	11	6	7
Sodium	ppm ASTM D5185m	2	<1	2
Potassium	ppm ASTM D5185m >20	0	<1	0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.2	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	11.1	5.2	6.1
Sulfation	Abs./1mm *ASTM D7415 >30	22.8	21.8	15.4



OIL ANALYSIS REPORT



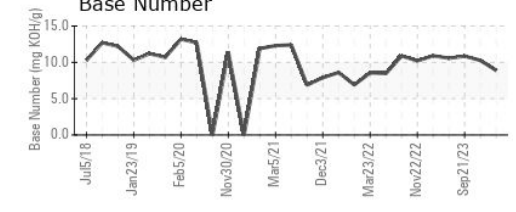
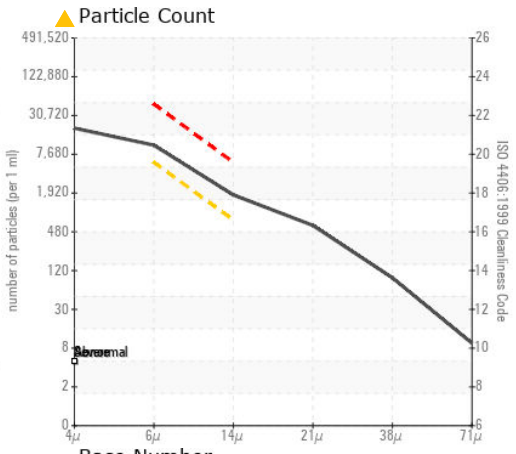
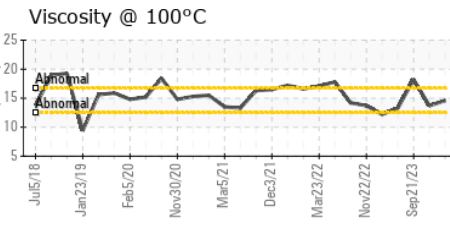
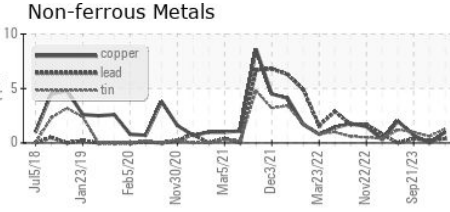
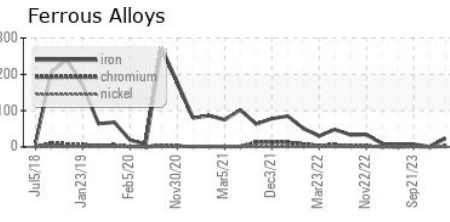
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		16938	4306	7908
Particles >6µm	ASTM D7647	>5000	▲ 9227	2346	4308
Particles >14µm	ASTM D7647	>640	▲ 1570	399	● 733
Particles >21µm	ASTM D7647	>160	▲ 529	134	● 247
Particles >38µm	ASTM D7647	>40	▲ 82	21	38
Particles >71µm	ASTM D7647	>10	8	2	4
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 20/18	18/16	● 19/17

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	25.6	19.7	7.1
Base Number (BN)	mg KOH/g ASTM D2896		8.89	10.27	10.85

VISUAL	method	limit/base	current	history1	history2
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 PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		14.6	13.7	● 18.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014209
Lab Number : 06153285
Unique Number : 10983363
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 18 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Don Baldrige

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: