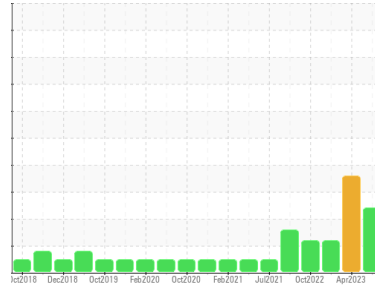




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
 Machine Id
BM NAINARI AUX-1 IBACO BM NAINARI AUX-1
 Component
Diesel Engine
 Fluid
XTRA REV 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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Fuel content negligible.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0012859	KL0012322	KL0010237
Sample Date	Client Info		21 Sep 2023	05 Apr 2023	22 Feb 2023
Machine Age	hrs	Client Info	22138	22153	21533
Oil Age	hrs	Client Info	5	192	336
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	3	6	14
Chromium	ppm	ASTM D5185m >20	0	0	1
Nickel	ppm	ASTM D5185m >4	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	<1	3
Lead	ppm	ASTM D5185m >40	0	<1	2
Copper	ppm	ASTM D5185m >330	<1	8	2
Tin	ppm	ASTM D5185m >15	<1	0	<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	0	0	0
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	1	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	3	7	6
Calcium	ppm	ASTM D5185m	2649	2800	3050
Phosphorus	ppm	ASTM D5185m	1152	1114	1167
Zinc	ppm	ASTM D5185m	1400	1407	1413
Sulfur	ppm	ASTM D5185m	3853	4313	4623

CONTAMINANTS

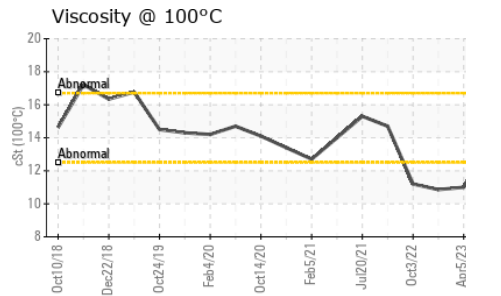
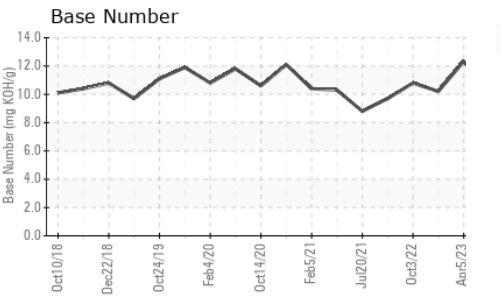
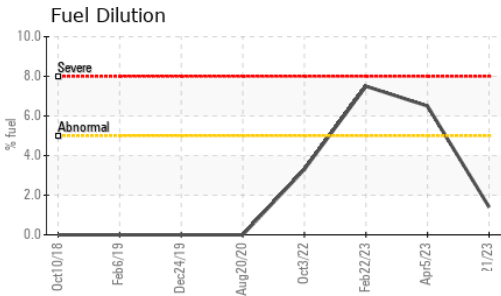
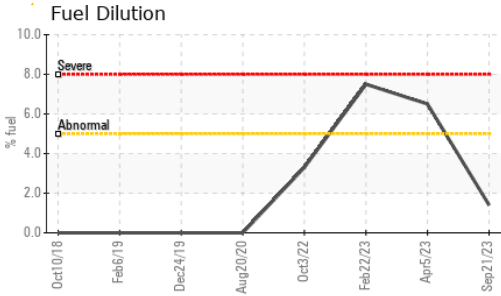
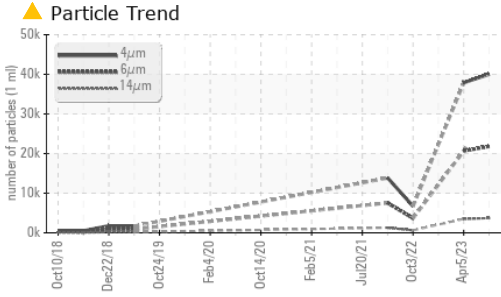
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	6	9
Sodium	ppm	ASTM D5185m	0	<1	2
Potassium	ppm	ASTM D5185m >20	3	3	3
Fuel	%	ASTM D3524 >5	1.4	▲ 6.5	▲ 7.5

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	4.1	7.7	11.5
Sulfation	Abs./1mm	*ASTM D7415 >30	12.5	16.3	19.5



OIL ANALYSIS REPORT



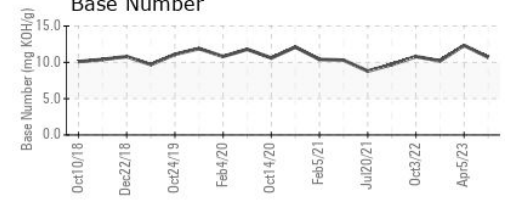
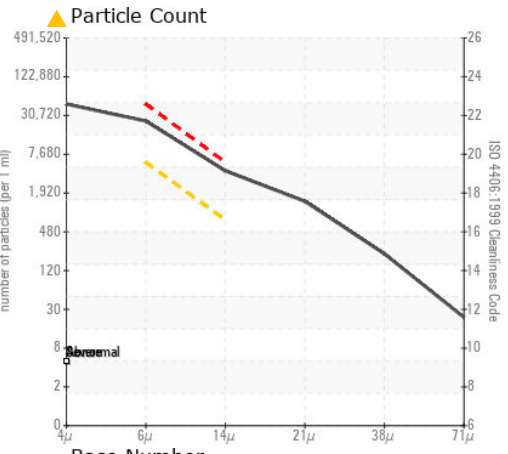
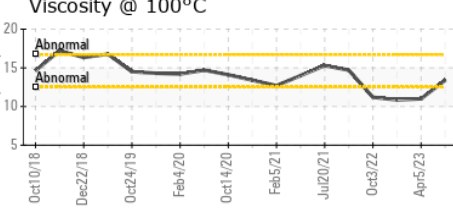
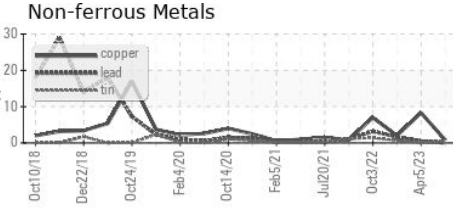
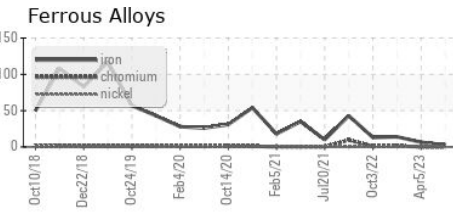
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		40027	37878	---
Particles >6µm	ASTM D7647	>5000	▲ 21805	▲ 20634	---
Particles >14µm	ASTM D7647	>640	▲ 3711	▲ 3512	---
Particles >21µm	ASTM D7647	>160	▲ 1250	▲ 1183	---
Particles >38µm	ASTM D7647	>40	▲ 193	▲ 183	---
Particles >71µm	ASTM D7647	>10	▲ 20	▲ 19	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 22/19	▲ 22/19	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	6.0	10.0	15.5
Base Number (BN)	mg KOH/g ASTM D2896		10.70	12.33	10.2

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		13.4	▲ 11.0	▲ 10.86

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012859 **Received** : 29 Sep 2023
Lab Number : 05964788 **Diagnosed** : 03 Oct 2023
Unique Number : 10671339 **Diagnostician** : Angela Borella
Test Package : MOB 2 (Additional Tests: PercentFuel, PrtCount)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
 Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com
 T: (526)622-1581 x:81
 F: x:

Certificate L2367
 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)