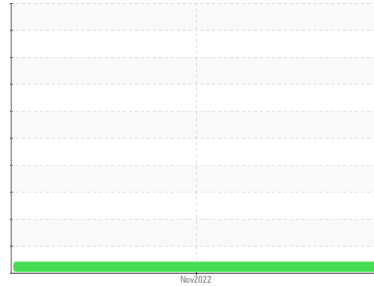




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

[CONHER]

Machine Id

INTERNATIONAL Astillero - Camion International Motor

Component

Diesel Engine

Fluid

Xtra Rev 15W40 (22 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

Fuel content negligible. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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 INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		KL0011242	---	---
Sample Date	Client Info		16 Nov 2022	---	---
Machine Age	hrs	Client Info	7200	---	---
Oil Age	hrs	Client Info	120	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ATTENTION	---	---

CONTAMINATION

	method	limit/base	current	history 1	history 2
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >100	16	---	---
Chromium	ppm	ASTM D5185m >20	<1	---	---
Nickel	ppm	ASTM D5185m >4	0	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m >3	0	---	---
Aluminum	ppm	ASTM D5185m >20	2	---	---
Lead	ppm	ASTM D5185m >40	1	---	---
Copper	ppm	ASTM D5185m >330	4	---	---
Tin	ppm	ASTM D5185m >15	<1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	410	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	129	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	540	---	---
Calcium	ppm	ASTM D5185m	1577	---	---
Phosphorus	ppm	ASTM D5185m	932	---	---
Zinc	ppm	ASTM D5185m	1082	---	---
Sulfur	ppm	ASTM D5185m	3888	---	---

CONTAMINANTS

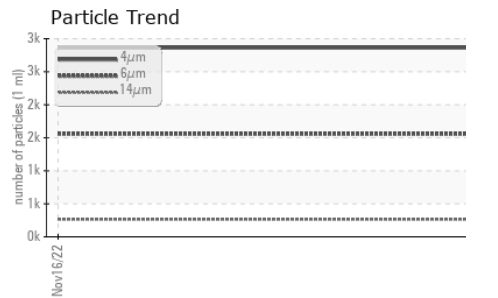
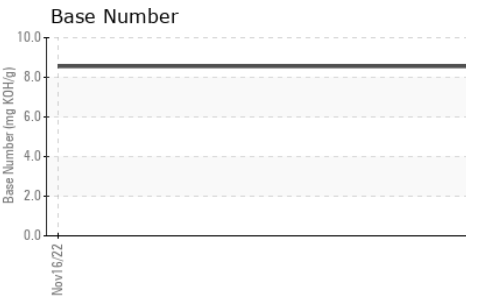
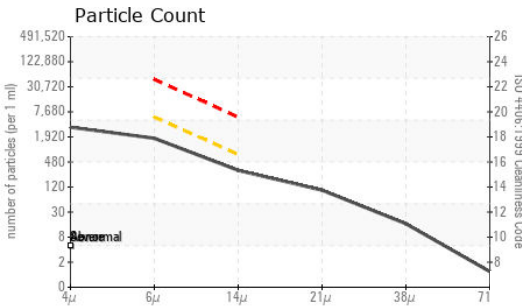
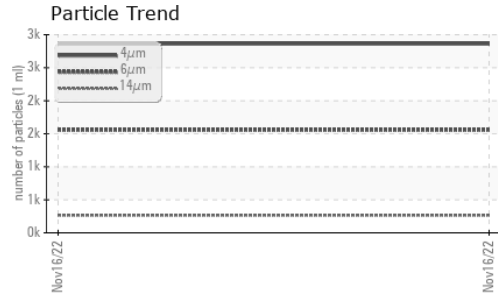
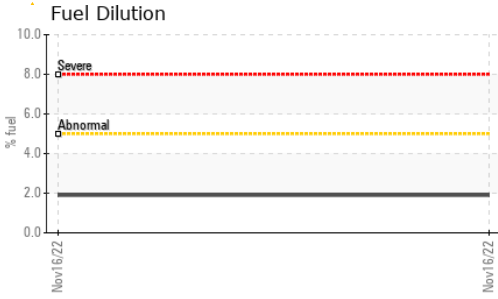
	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	8	---	---
Sodium	ppm	ASTM D5185m	3	---	---
Potassium	ppm	ASTM D5185m >20	<1	---	---
Fuel	%	ASTM D3524 >5	1.9	---	---

INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >3	0.2	---	---
Nitration	Abs/cm	*ASTM D7624 >20	7.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.8	---	---



OIL ANALYSIS REPORT



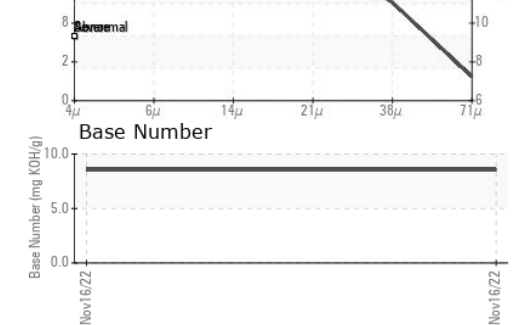
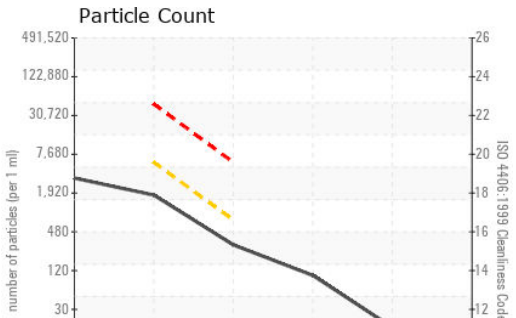
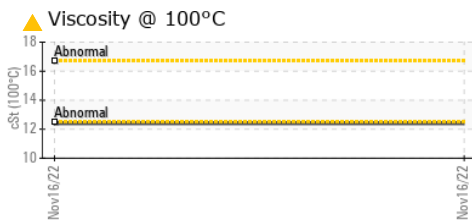
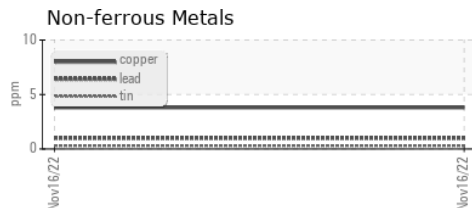
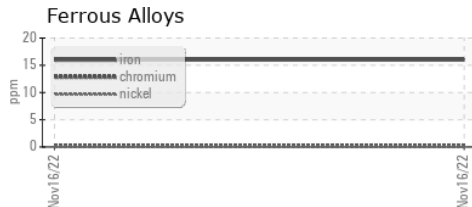
FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		2862	---	---
Particles >6µm	ASTM D7647	>5000	1559	---	---
Particles >14µm	ASTM D7647	>640	265	---	---
Particles >21µm	ASTM D7647	>160	89	---	---
Particles >38µm	ASTM D7647	>40	14	---	---
Particles >71µm	ASTM D7647	>10	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	18/15	---	---

FLUID DEGRADATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414	>25	17.1	---	---
Base Number (BN)	mg KOH/g ASTM D2896		8.55	---	---

VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar *Visual	NONE	NONE	---	---
Yellow Metal	scalar *Visual	NONE	NONE	---	---
Precipitate	scalar *Visual	NONE	NONE	---	---
Silt	scalar *Visual	NONE	NONE	---	---
Debris	scalar *Visual	NONE	NONE	---	---
Sand/Dirt	scalar *Visual	NONE	NONE	---	---
Appearance	scalar *Visual	NORML	NORML	---	---
Odor	scalar *Visual	NORML	NORML	---	---
Emulsified Water	scalar *Visual	>0.2	NEG	---	---
Free Water	scalar *Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt ASTM D445		▲ 12.4	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011242 **Received** : 06 Dec 2022
Lab Number : **05710557** **Diagnosed** : 12 Dec 2022
Unique Number : 10245132 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

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)

IBACO
 GUAYMAS,
 MX
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 jefeflota@ibaco.com.mx

T:
F: