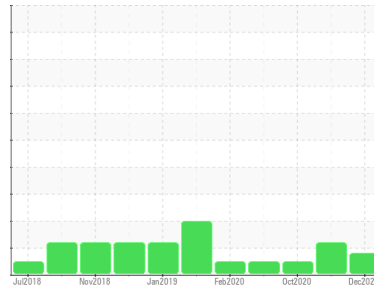




OIL ANALYSIS REPORT

Area
GUAY SON [CONHER]
 Machine Id
CATERPILLAR CHUYITO XXVIII - IBACO
 Component
Diesel Engine
 Fluid
Pure Guard 15W40 CI-4+ (160 LTR)

Sample Rating Trend



FUEL



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Looking for fuel)

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

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		KL0005951	KL0005949	KL0004609
Sample Date	Client Info		29 Dec 2020	29 Nov 2020	22 Oct 2020
Machine Age	hrs	Client Info	8869	8473	8387
Oil Age	hrs	Client Info	2773	2377	1891
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			MARGINAL	ABNORMAL	NORMAL

CONTAMINATION

	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	61	62	62
Chromium	ppm	ASTM D5185m >20	1	<1	1
Nickel	ppm	ASTM D5185m >2	2	1	2
Titanium	ppm	ASTM D5185m >2	<1	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	2	1
Lead	ppm	ASTM D5185m >40	2	5	4
Copper	ppm	ASTM D5185m >330	5	7	7
Tin	ppm	ASTM D5185m >15	0	0	1
Antimony	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	4
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	39	45	66
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	474	614	846
Calcium	ppm	ASTM D5185m	2664	2415	2020
Phosphorus	ppm	ASTM D5185m	1113	1087	1069
Zinc	ppm	ASTM D5185m	1275	1296	1253
Sulfur	ppm	ASTM D5185m	2830	2865	3296

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	14	12
Sodium	ppm	ASTM D5185m	6	8	8
Potassium	ppm	ASTM D5185m >20	0	<1	<1
Fuel	%	ASTM D3524 >5	▲ 4.0	▲ 6.6	<1.0

INFRA-RED

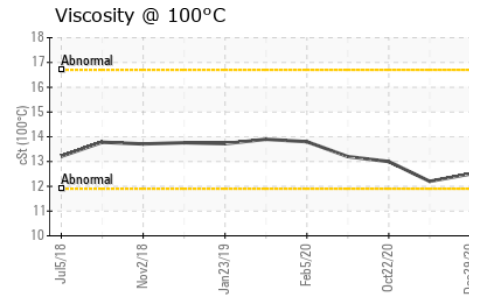
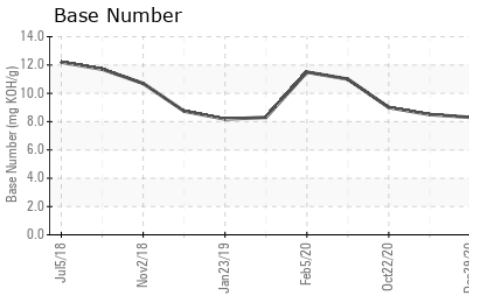
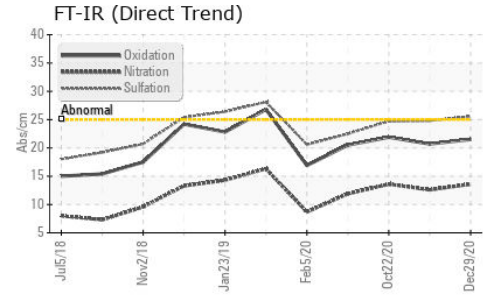
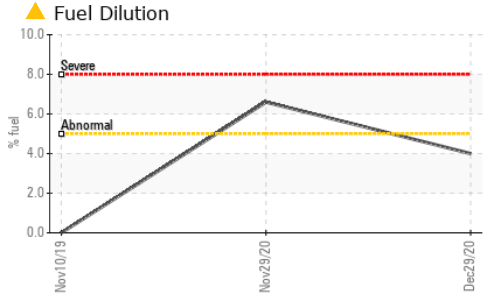
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.8	0.8	0.8
Nitration	Abs/cm	*ASTM D7624 >20	13.6	12.6	13.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.6	24.8	24.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.5	20.7	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.3	8.5	9



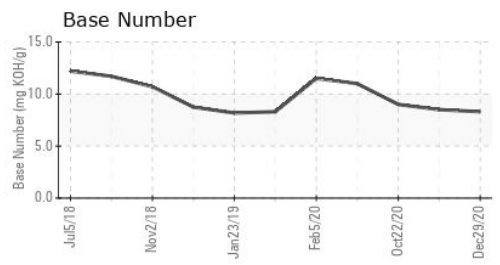
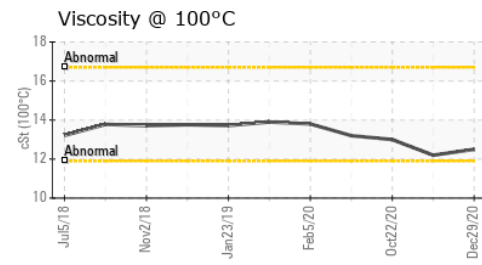
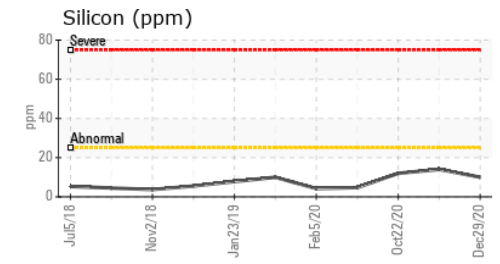
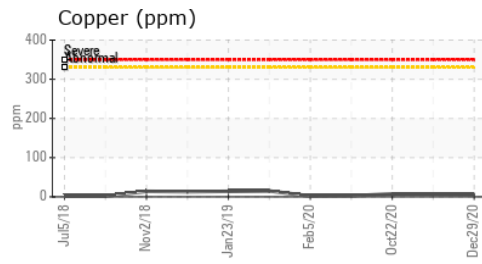
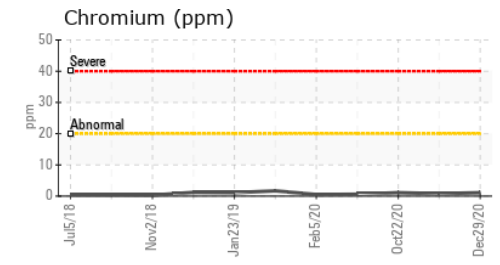
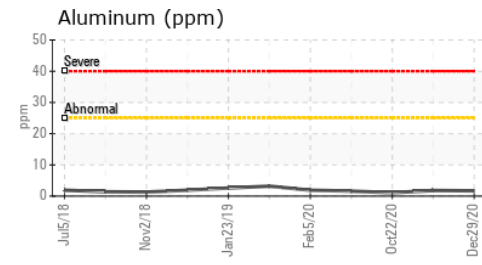
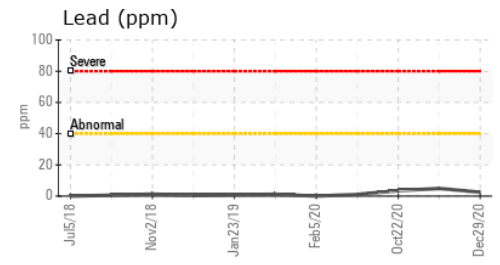
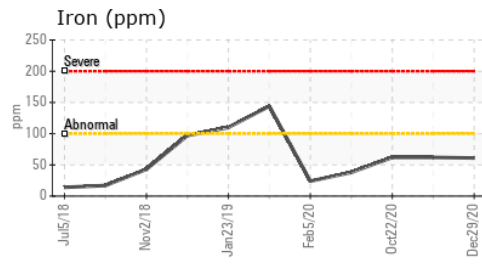
OIL ANALYSIS REPORT



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	12.5	▲ 12.2	13.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0005951 **Received** : 22 Jan 2021
Lab Number : 05165404 **Tested** : 26 Jan 2021
Unique Number : 9335686 **Diagnosed** : 26 Jan 2021 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: EDUARDO GARCIA
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: