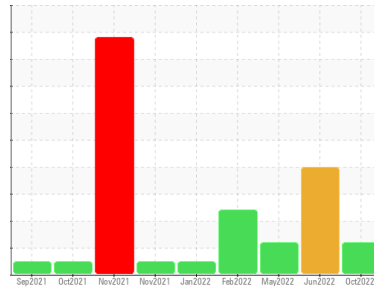




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area
GUAY SON/Yavaros [CONHER]

Machine Id
Pacifico Ind Azteca Aux1

Component
Center Left Auxiliary Engine

Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (25 LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. The amount and size of particulates present in the system are acceptable.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0011181	KL0010182	KL0009241
Sample Date	Client Info		16 Oct 2022	13 Jun 2022	01 May 2022
Machine Age	hrs	Client Info	1617	1347	0
Oil Age	hrs	Client Info	270	318	350
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			ABNORMAL	SEVERE	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	36	▲ 121	55
Chromium	ppm	ASTM D5185m >20	2	2	1
Nickel	ppm	ASTM D5185m >2	<1	0	<1
Titanium	ppm	ASTM D5185m >2	<1	<1	0
Silver	ppm	ASTM D5185m >2	1	<1	<1
Aluminum	ppm	ASTM D5185m >20	2	3	4
Lead	ppm	ASTM D5185m >40	9	▲ 99	8
Copper	ppm	ASTM D5185m >330	43	11	5
Tin	ppm	ASTM D5185m >15	1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	228	89	241
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	64	67	114
Manganese	ppm	ASTM D5185m	2	2	<1
Magnesium	ppm	ASTM D5185m	323	359	715
Calcium	ppm	ASTM D5185m	1492	1408	1585
Phosphorus	ppm	ASTM D5185m 1360	536	542	727
Zinc	ppm	ASTM D5185m 1480	646	675	848
Sulfur	ppm	ASTM D5185m	2442	2183	2222

CONTAMINANTS

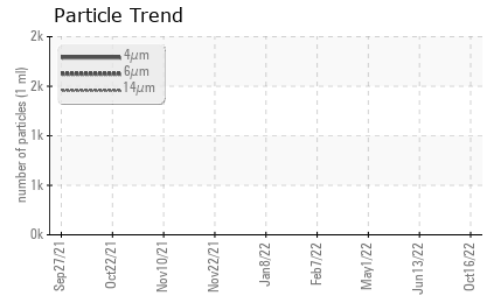
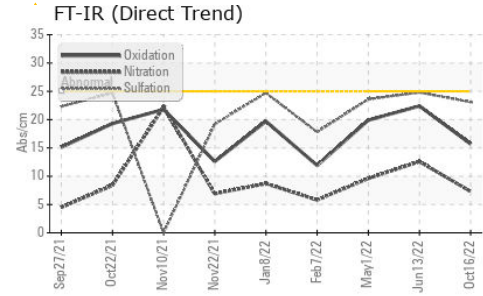
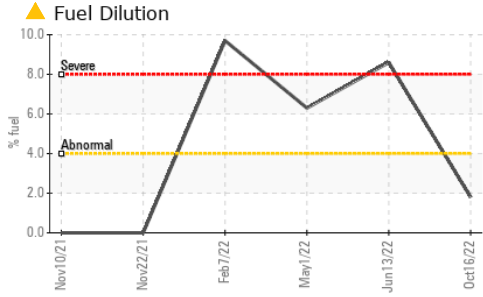
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	14	11	6
Sodium	ppm	ASTM D5185m	7	4	5
Potassium	ppm	ASTM D5185m >20	3	2	0
Fuel	%	ASTM D3524 >4.0	▲ 1.8	▲ 8.6	▲ 6.3

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.2	0.9	0.6
Nitration	Abs/cm	*ASTM D7624 >20	7.3	12.6	9.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.1	24.8	23.6



OIL ANALYSIS REPORT



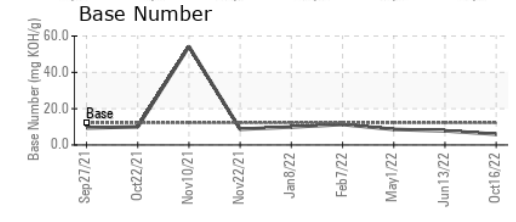
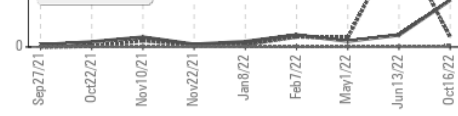
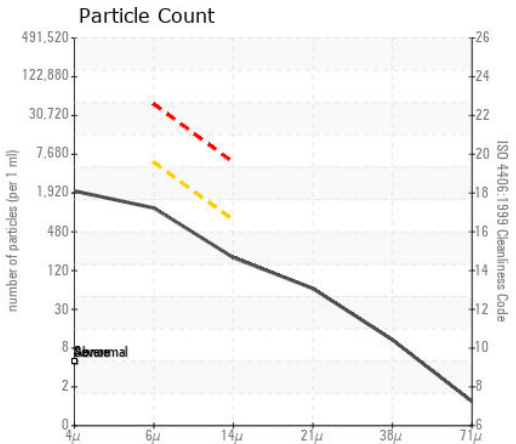
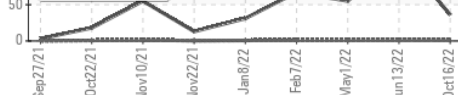
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1807	---	---
Particles >6µm	ASTM D7647	>5000	985	---	---
Particles >14µm	ASTM D7647	>640	168	---	---
Particles >21µm	ASTM D7647	>160	56	---	---
Particles >38µm	ASTM D7647	>40	9	---	---
Particles >71µm	ASTM D7647	>10	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	17/15	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	15.7	22.4	19.9
Base Number (BN)	mg KOH/g ASTM D2896	12.2	5.94	7.8	8.6

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	>0.1	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	15.1	▲ 11.6	▲ 11.0	▲ 12.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011181 **Received** : 31 Oct 2022
Lab Number : 05681220 **Tested** : 04 Nov 2022
Unique Number : 10195791 **Diagnosed** : 04 Nov 2022 - Doug Bogart
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)