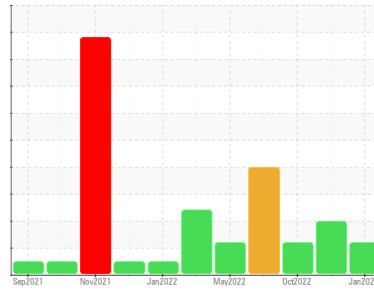




OIL ANALYSIS REPORT

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

There is a moderate amount of fuel present in the oil.

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	KL0010214	KL0011319	KL0011181	
Sample Date	Client Info	25 Jan 2023	15 Nov 2022	16 Oct 2022	
Machine Age	hrs	Client Info	2319	0	1617
Oil Age	hrs	Client Info	972	0	270
Oil Changed	Client Info	Not Chngd	N/A	Not Chngd	
Sample Status		ABNORMAL	ABNORMAL	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	90	87	36
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	33	▲ 49	9
Copper	ppm	ASTM D5185m	>330	91	148	43
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		211	147	228
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		119	90	64
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		560	438	323
Calcium	ppm	ASTM D5185m		1589	1607	1492
Phosphorus	ppm	ASTM D5185m	1360	729	620	536
Zinc	ppm	ASTM D5185m	1480	921	726	646
Sulfur	ppm	ASTM D5185m		2591	2425	2442

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	10	12	14
Sodium	ppm	ASTM D5185m		7	6	7
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Fuel	%	ASTM D3524	>4.0	▲ 5.3	▲ 5.3	▲ 1.8

INFRA-RED

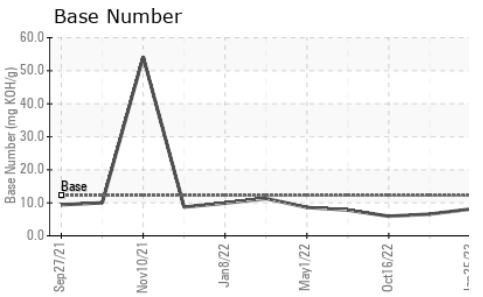
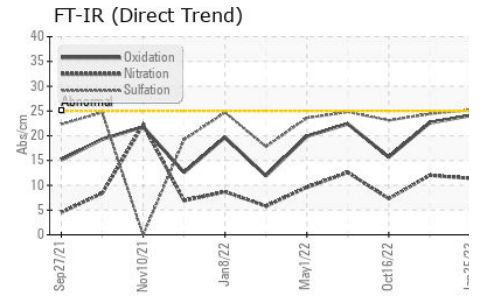
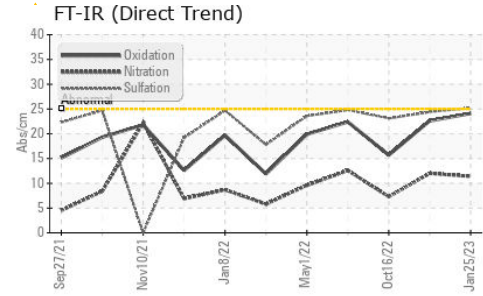
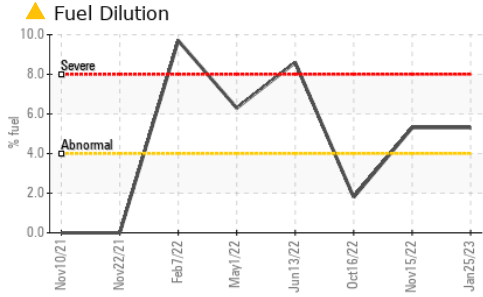
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0.5	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.4	12.0	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	24.4	23.1

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	22.6	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	8.1	6.57	5.94



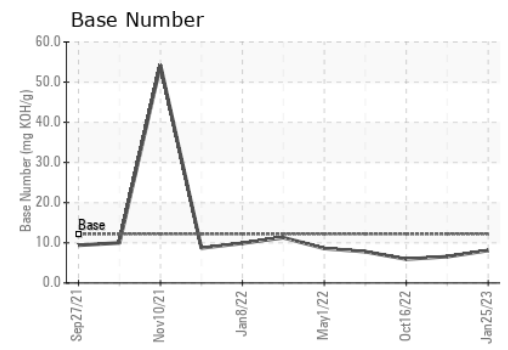
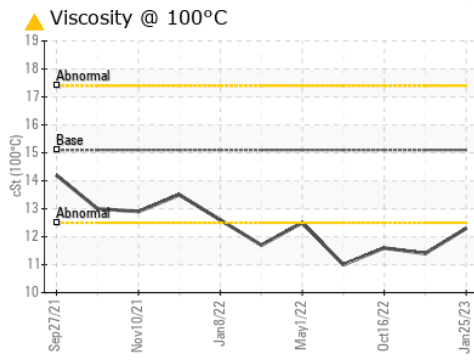
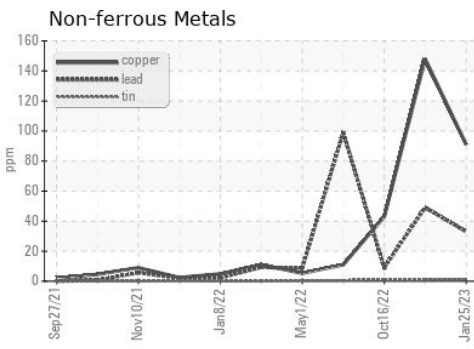
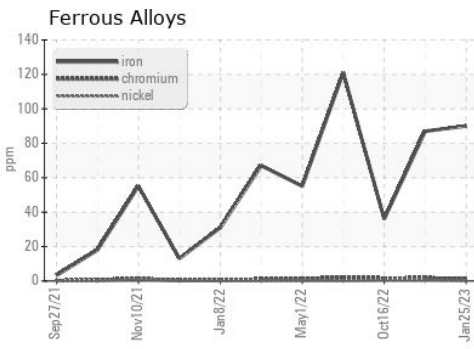
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	▲ 12.3	▲ 11.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010214 **Received** : 01 Feb 2023
Lab Number : 05755977 **Tested** : 02 Feb 2023
Unique Number : 10320584 **Diagnosed** : 02 Feb 2023 - Jonathan Hester
Test Package : FLEET (Additional Tests: PercentFuel)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
 Contact: EDUARDO GARCIA
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 F: x:

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)