



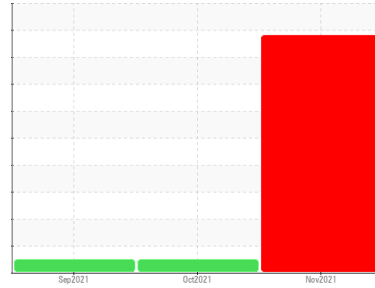
# OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Area  
**GUAY SON/Yavaros**  
 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 for possible coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. NOTE: High contamination in the sample has limited the accuracy of Infra-Red data including Total Base Number (TBN) value. ( Customer Sample Comment: RUSH )

### Wear

All component wear rates are normal.

### Contamination

Test for glycol is positive. There is a light concentration of water present in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0007609</b>	KL0007492	KL0007485
Sample Date	Client Info		<b>10 Nov 2021</b>	22 Oct 2021	27 Sep 2021
Machine Age	hrs	Client Info	<b>446</b>	100	0
Oil Age	hrs	Client Info	<b>446</b>	150	50
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>55</b>	18	3
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	7	6
Lead	ppm	ASTM D5185m >40	<b>6</b>	<1	0
Copper	ppm	ASTM D5185m >330	<b>9</b>	5	2
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>158</b>	286	396
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>86</b>	117	118
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>615</b>	650	653
Calcium	ppm	ASTM D5185m	<b>1282</b>	1476	1523
Phosphorus	ppm	ASTM D5185m 1360	<b>437</b>	653	682
Zinc	ppm	ASTM D5185m 1480	<b>634</b>	782	748
Sulfur	ppm	ASTM D5185m	<b>2249</b>	1941	2071

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	5
Sodium	ppm	ASTM D5185m	<b>11</b>	<1	4
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	1
Water	%	ASTM D6304 >0.1	<b>0.203</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>2030</b>	---	---
Glycol	%	*ASTM D2982	<b>0.10</b>	NEG	NEG

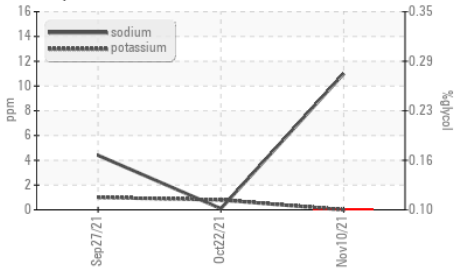
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.3</b>	0.5	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>22.2</b>	8.4	4.5
Sulfation	Abs:1mm	*ASTM D7415 >30	<b>0</b>	24.7	22.3

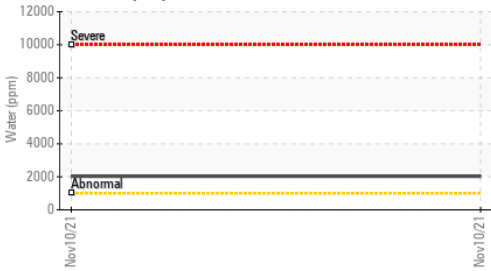


# OIL ANALYSIS REPORT

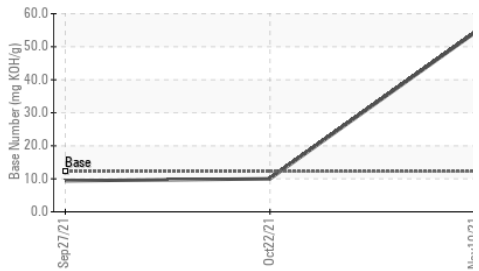
### Glycol Contamination



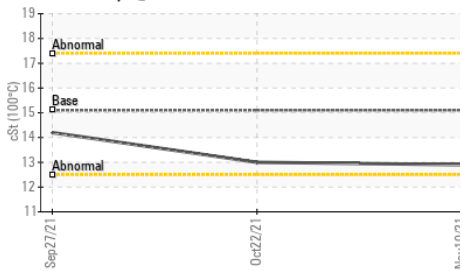
### Water (KF)



### Base Number



### Viscosity @ 100°C

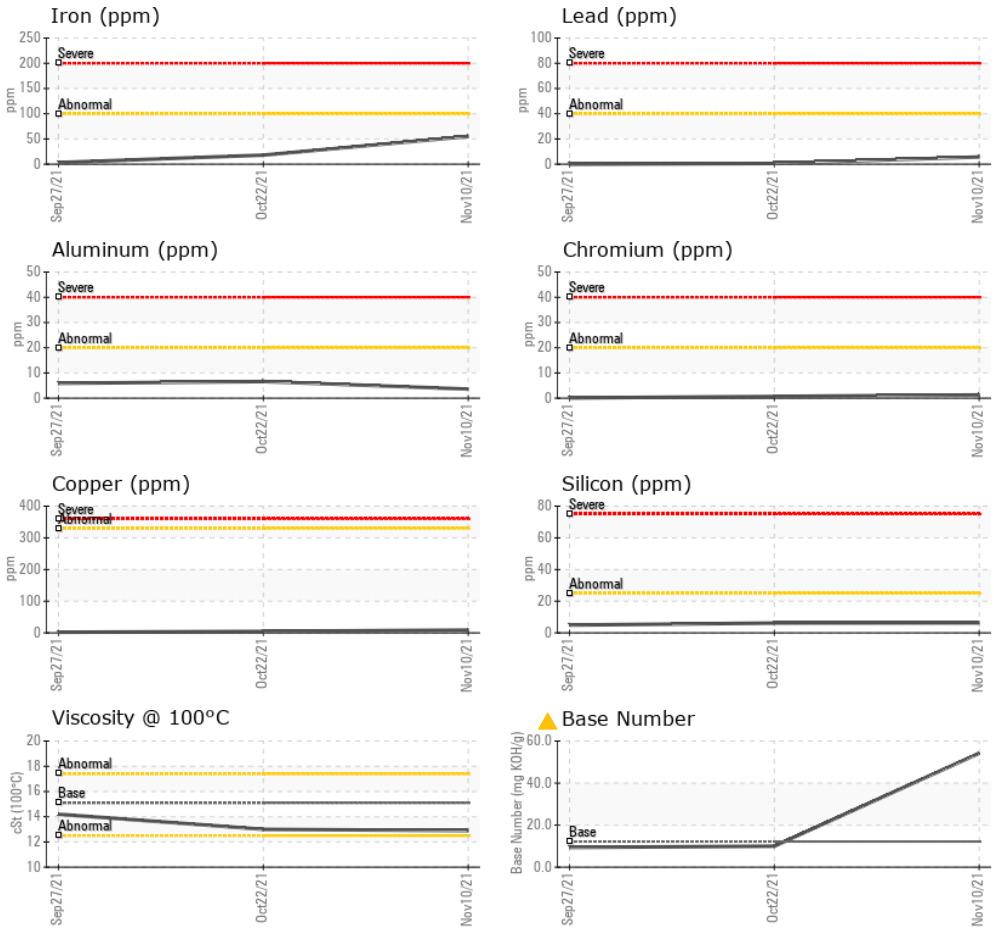


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.8</b>	19.3	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>▲ 54.2</b>	10	9.4

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	<b>12.9</b>	13.0	14.2

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0007609 **Received** : 15 Nov 2021  
**Lab Number** : **05400802** **Tested** : 16 Nov 2021  
**Unique Number** : 9739952 **Diagnosed** : 16 Nov 2021 - Doug Bogart  
**Test Package** : MOB1+ ( Additional Tests: GLYCOL, KF )

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)

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