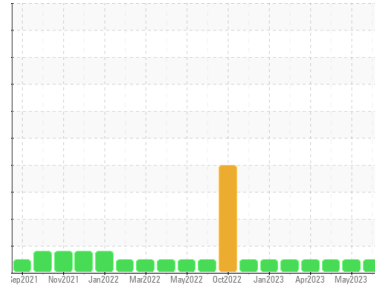




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
GUAY SON/Yavaros [CONHER]
 Machine Id
PERKINS Pacifico Ind PISA1 Aux1
 Component
Auxiliary Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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	KL0012264	KL0012241	KL0012230
Sample Date	Client Info	08 Jul 2023	31 May 2023	26 Apr 2023
Machine Age	hrs	Client Info	44464	43888
Oil Age	hrs	Client Info	2455	1879
Oil Changed	Client Info	N/A	Not Changd	Not Changd
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >4.0	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	38	21	15
Chromium	ppm	ASTM D5185m >20	1	1	<1
Nickel	ppm	ASTM D5185m >2	<1	0	<1
Titanium	ppm	ASTM D5185m >2	0	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	2	3
Lead	ppm	ASTM D5185m >40	3	3	3
Copper	ppm	ASTM D5185m >330	19	15	7
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	119	170	178
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	134	133	118
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	733	724	642
Calcium	ppm	ASTM D5185m	1661	1609	1421
Phosphorus	ppm	ASTM D5185m 1360	720	740	636
Zinc	ppm	ASTM D5185m 1480	918	924	801
Sulfur	ppm	ASTM D5185m	2843	3088	2539

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	8	8	8
Sodium	ppm	ASTM D5185m	5	3	1
Potassium	ppm	ASTM D5185m >20	0	<1	2

INFRA-RED

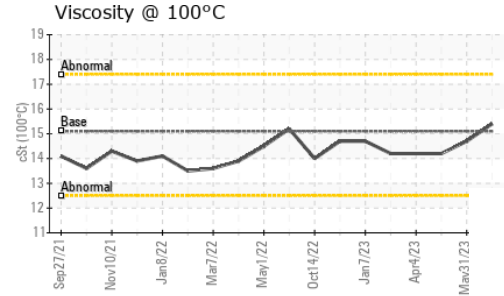
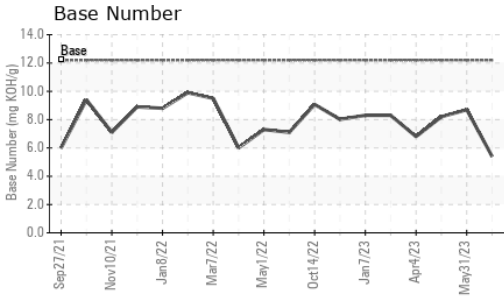
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	3.4	0.5	2.3
Nitration	Abs/cm	*ASTM D7624 >20	13.4	10.9	10.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	32.1	27.5	28.2

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	24.3	25.4	20.0
Base Number (BN)	mg KOH/g	ASTM D2896 12.2	5.4	8.7	8.2



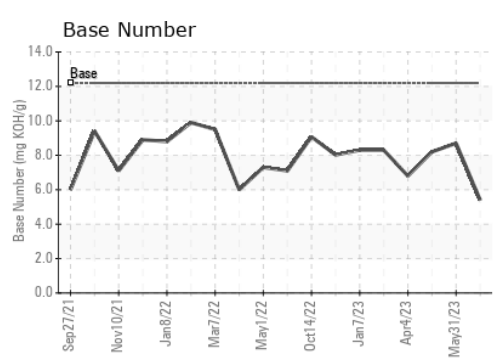
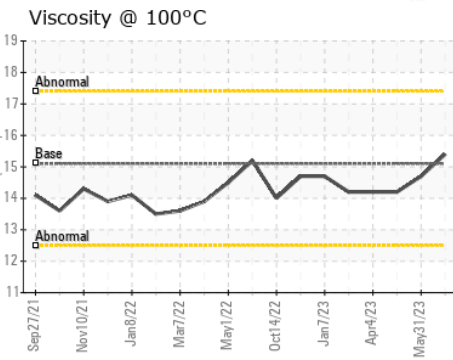
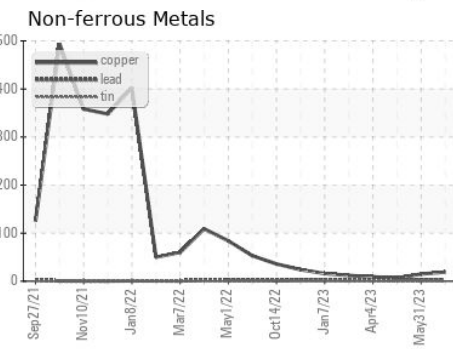
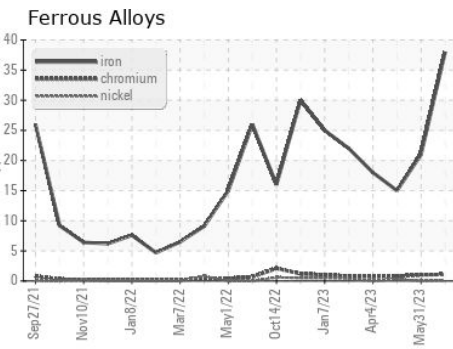
OIL ANALYSIS REPORT



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	15.4	14.7	14.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012264 **Received** : 21 Jul 2023
Lab Number : **05904834** **Diagnosed** : 25 Jul 2023
Unique Number : 10566190 **Diagnostician** : Don Baldrige
Test Package : FLEET

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)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140

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