



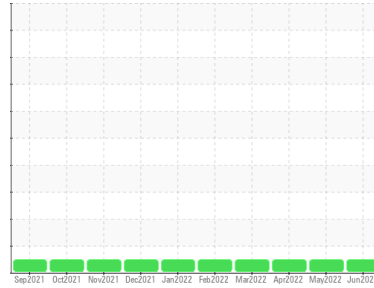
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
GUAY SON/Yavaros [CONHER]
 Machine Id
CATERPILLAR Pacifico Ind Azteca MP
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (160 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		KL0010181	KL0009240	KL0009232
Sample Date	Client Info		13 Jun 2022	01 May 2022	08 Apr 2022
Machine Age	hrs	Client Info	3641	3269	2919
Oil Age	hrs	Client Info	722	350	2919
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
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	24	8	72
Chromium	ppm	ASTM D5185m >20	<1	<1	1
Nickel	ppm	ASTM D5185m >2	0	<1	2
Titanium	ppm	ASTM D5185m >2	0	0	<1
Silver	ppm	ASTM D5185m >2	<1	<1	<1
Aluminum	ppm	ASTM D5185m >25	4	4	5
Lead	ppm	ASTM D5185m >40	3	2	22
Copper	ppm	ASTM D5185m >330	11	3	25
Tin	ppm	ASTM D5185m >15	<1	<1	3
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	173	320	141
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	87	115	122
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	469	727	754
Calcium	ppm	ASTM D5185m	1461	1575	1708
Phosphorus	ppm	ASTM D5185m 1360	607	746	734
Zinc	ppm	ASTM D5185m 1480	758	849	844
Sulfur	ppm	ASTM D5185m	2311	2331	2198

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	4	9
Sodium	ppm	ASTM D5185m	6	5	20
Potassium	ppm	ASTM D5185m >20	2	<1	0

INFRA-RED

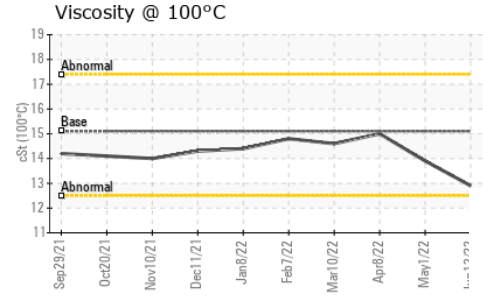
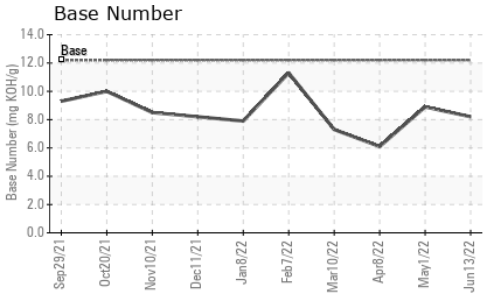
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.2	1
Nitration	Abs/cm	*ASTM D7624 >20	10.0	6.9	14.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.3	23.5	31.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.9	17.0	33.0
Base Number (BN)	mg KOH/g	ASTM D2896 12.2	8.2	8.9	6.1



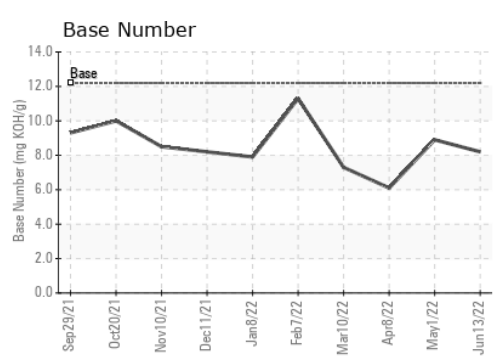
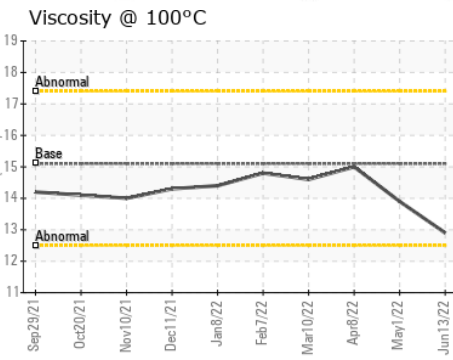
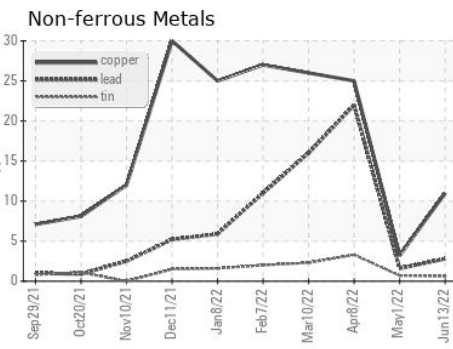
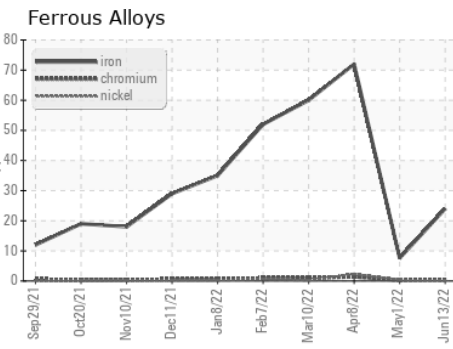
OIL ANALYSIS REPORT



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	15.1	12.9	13.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010181 **Received** : 29 Jun 2022
Lab Number : 05579595 **Tested** : 30 Jun 2022
Unique Number : 10034021 **Diagnosed** : 30 Jun 2022 - Don Baldrige
Test Package : FLEET

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
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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)