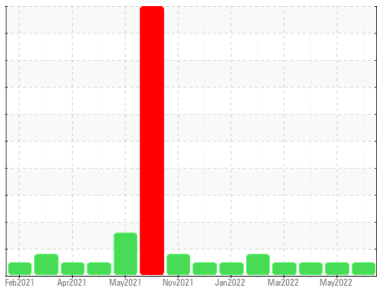
OIL ANALYSIS REPORT

Area
GUAY SON/Yavaros [CONHER]
Machine Id
CATERPILLAR Pacifico industrial PISA2 MP
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (100 LTR)

Sample Rating Trend



NORMAL

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		**KL0010185**	KL0009245	KL0009227
Sample Date		Client Info		**13 Jun 2022**	01 May 2022	08 Apr 2022
Machine Age	hrs	Client Info		**0**	35660	35310
Oil Age	hrs	Client Info		**0**	350	586
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	**53**	19	56
Chromium	ppm	ASTM D5185m	>20	**2**	<1	1
Nickel	ppm	ASTM D5185m	>2	**0**	0	1
Titanium	ppm	ASTM D5185m	>2	**0**	0	<1
Silver	ppm	ASTM D5185m	>2	**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**3**	3	4
Lead	ppm	ASTM D5185m	>40	**3**	<1	2
Copper	ppm	ASTM D5185m	>330	**7**	4	14
Tin	ppm	ASTM D5185m	>15	**<1**	<1	2
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**53**	205	133
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**71**	88	121
Manganese	ppm	ASTM D5185m		**<1**	<1	1
Magnesium	ppm	ASTM D5185m		**421**	594	773
Calcium	ppm	ASTM D5185m		**1405**	1553	1708
Phosphorus	ppm	ASTM D5185m	760	**552**	693	779
Zinc	ppm	ASTM D5185m	800	**681**	745	888
Sulfur	ppm	ASTM D5185m	3000	**2154**	2201	2354

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**8**	7	7
Sodium	ppm	ASTM D5185m		**<1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**2**	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.8**	0.8	2.3
Nitration	Abs/cm	*ASTM D7624	>20	**10.4**	6.5	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**25.6**	22.5	29.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.0**	14.4	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10	**6.5**	8.4	7.9

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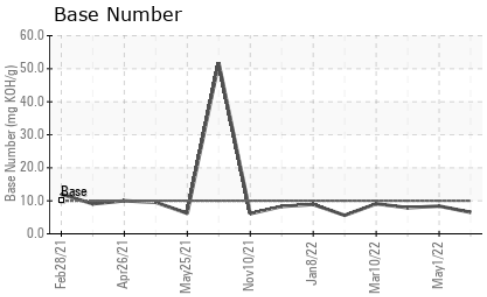
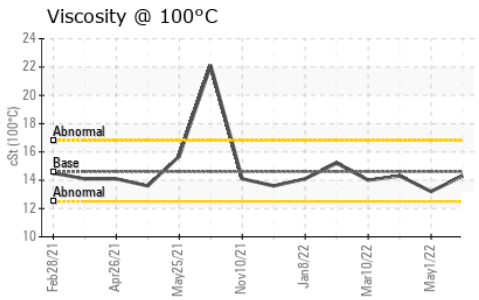
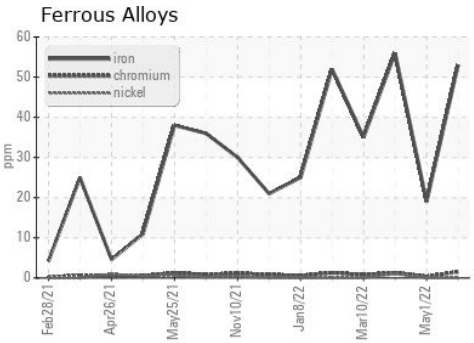


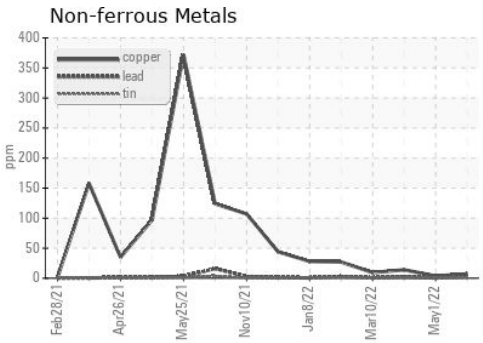


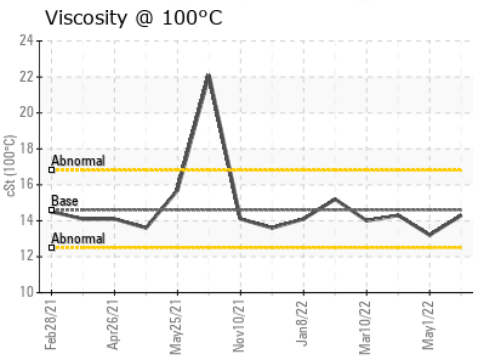
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

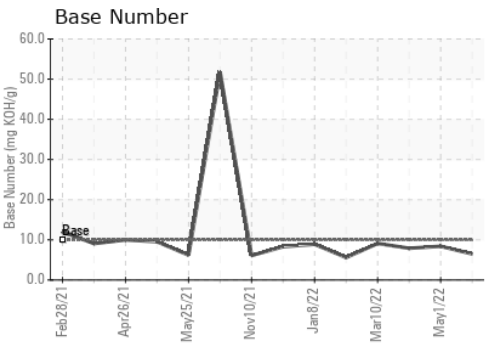
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	**14.3**	13.2	14.3

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010185
Lab Number : 05579604
Unique Number : 10034030
Test Package : FLEET

Received : 29 Jun 2022
Tested : 30 Jun 2022
Diagnosed : 30 Jun 2022 - Don Baldridge

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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