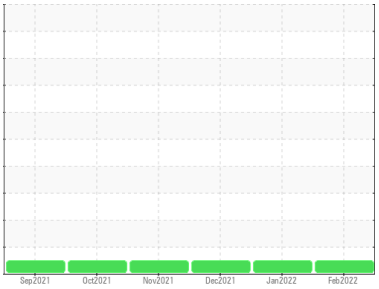
OIL ANALYSIS REPORT

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		**KL0009052**	KL0009029	KL0009018
Sample Date		Client Info		**07 Feb 2022**	08 Jan 2022	11 Dec 2021
Machine Age	hrs	Client Info		**1618**	998	728
Oil Age	hrs	Client Info		**1618**	1008	728
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
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	**52**	35	29
Chromium	ppm	ASTM D5185m	>20	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185m	>2	**0**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	3	3
Lead	ppm	ASTM D5185m	>40	**11**	6	5
Copper	ppm	ASTM D5185m	>330	**27**	25	30
Tin	ppm	ASTM D5185m	>15	**2**	2	2
Antimony	ppm	ASTM D5185m		**0**	0	0
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		**154**	188	223
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**125**	120	116
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**713**	666	657
Calcium	ppm	ASTM D5185m		**1650**	1529	1501
Phosphorus	ppm	ASTM D5185m	1360	**718**	638	621
Zinc	ppm	ASTM D5185m	1480	**831**	767	737
Sulfur	ppm	ASTM D5185m		**2362**	1959	1786

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**10**	10	10
Sodium	ppm	ASTM D5185m		**16**	13	13
Potassium	ppm	ASTM D5185m	>20	**1**	1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**5.6**	11.5	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	**16.4**	26.9	26

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**9.7**	24.1	22.7
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	**11.3**	7.9	8.2

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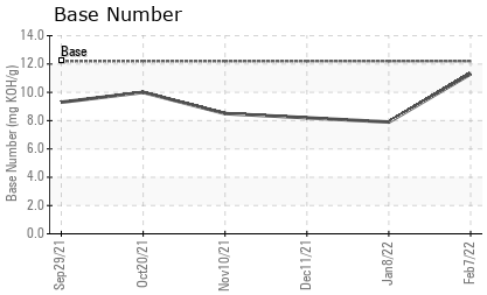
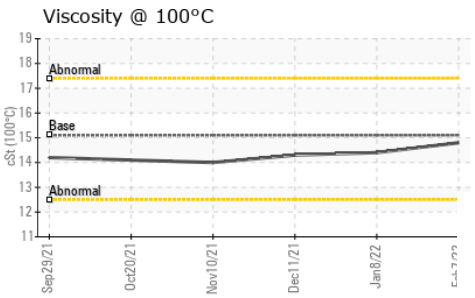
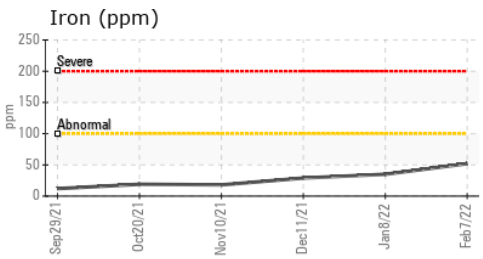


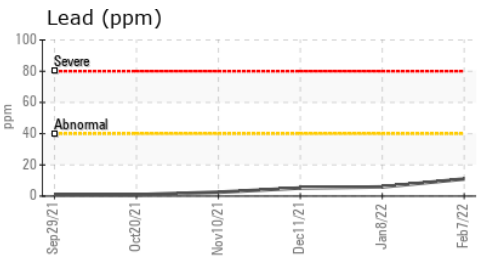


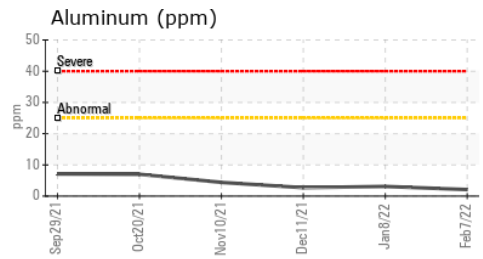
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

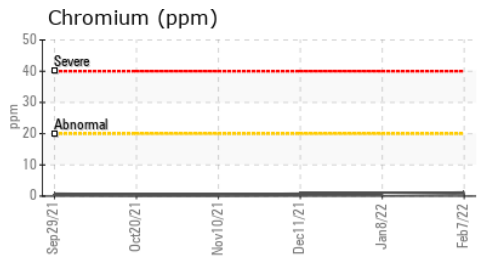
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	**14.8**	14.4	14.3

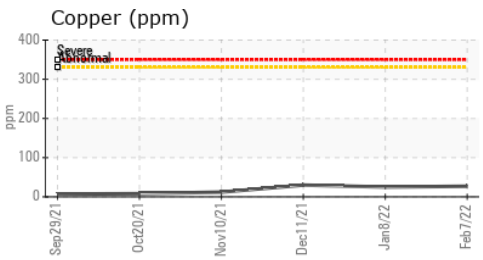
GRAPHS

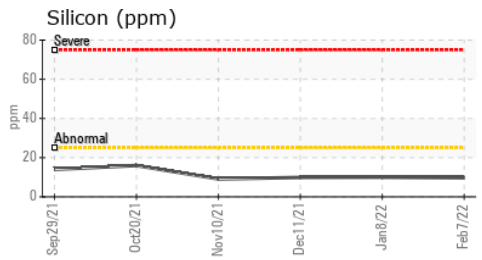


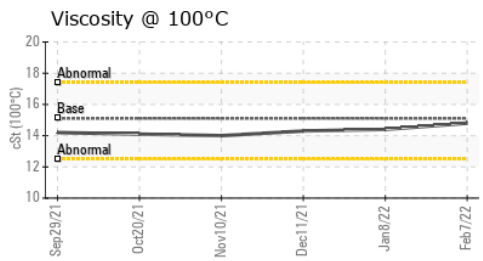


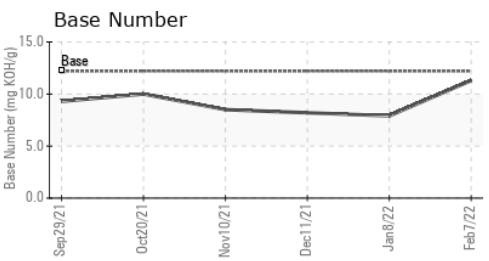












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0009052
Lab Number : 05467377
Unique Number : 9851590
Test Package : MOB1+

Received : 14 Feb 2022
Tested : 15 Feb 2022
Diagnosed : 15 Feb 2022 - Angela Borella

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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