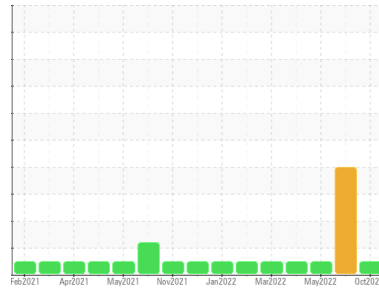




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
GUAY SON/Yavaros [CONHER]
 Machine Id
Pacifico Industrial - PISA2 Aux1
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 SDE SAE 15W40 (40 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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. The amount and size of particulates present in the system are acceptable.

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		KL0011192	KL0010186	KL0009246
Sample Date	Client Info		16 Oct 2022	13 Jun 2022	01 May 2022
Machine Age	hrs	Client Info	38266	0	38066
Oil Age	hrs	Client Info	200	0	450
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			NORMAL	ABNORMAL	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	>250	28	36	20
Chromium	ppm	ASTM D5185m	>10	2	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		4	<1	<1
Aluminum	ppm	ASTM D5185m	>35	2	1	4
Lead	ppm	ASTM D5185m	>100	4	7	4
Copper	ppm	ASTM D5185m	>60	14	8	8
Tin	ppm	ASTM D5185m	>5	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		328	40	148
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		106	13	105
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		583	84	727
Calcium	ppm	ASTM D5185m		1410	797	1531
Phosphorus	ppm	ASTM D5185m	760	615	308	695
Zinc	ppm	ASTM D5185m	800	745	332	825
Sulfur	ppm	ASTM D5185m	3000	2485	1537	2166

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	24	10	7
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	2	2	0

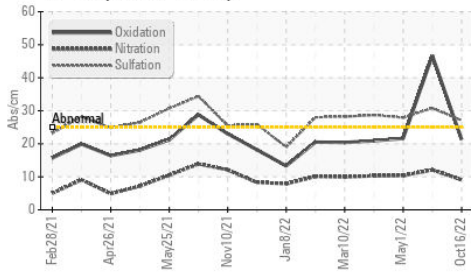
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1	0.5	1.6
Nitration	Abs/cm	*ASTM D7624	>20	9.1	12.1	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	30.8	27.9

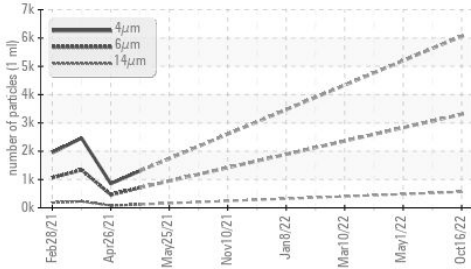


OIL ANALYSIS REPORT

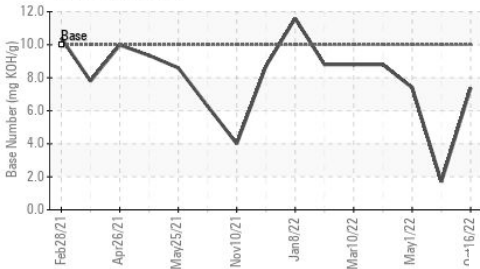
FT-IR (Direct Trend)



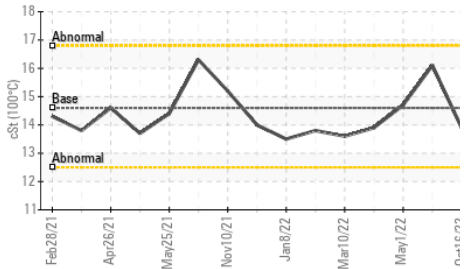
Particle Trend



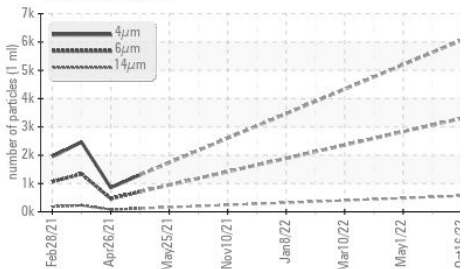
Base Number



Viscosity @ 100°C



Particle Trend



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		6064	---	---
Particles >6µm	ASTM D7647	>5000	3303	---	---
Particles >14µm	ASTM D7647	>640	562	---	---
Particles >21µm	ASTM D7647	>160	189	---	---
Particles >38µm	ASTM D7647	>40	29	---	---
Particles >71µm	ASTM D7647	>10	3	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	19/16	---	---

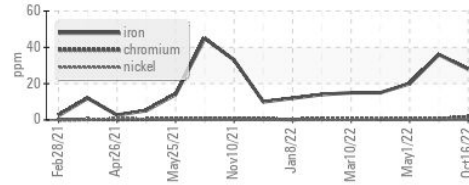
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	21.3	46.7	21.6
Base Number (BN)	mg KOH/g ASTM D2896	10	7.38	▲ 1.7	7.4

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

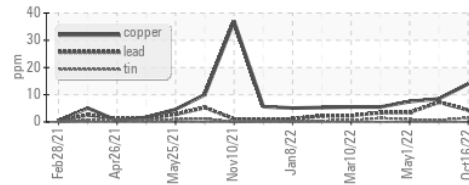
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	14.6	13.9	16.1	14.7

GRAPHS

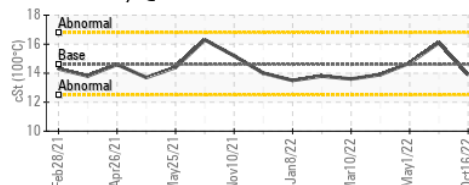
Ferrous Alloys



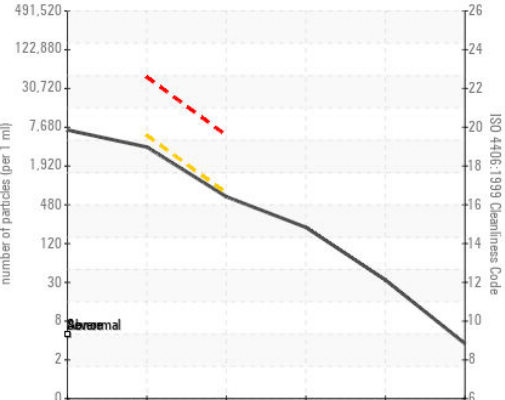
Non-ferrous Metals



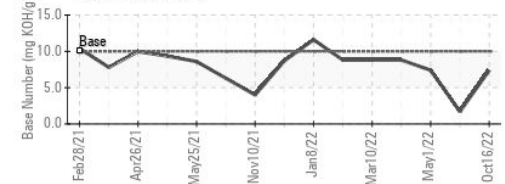
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0011192
 Lab Number : 05681228
 Unique Number : 10195799
 Test Package : MOB 2 (Additional Tests: PrtCount)
 Received : 31 Oct 2022
 Tested : 02 Nov 2022
 Diagnosed : 02 Nov 2022 - Doug Bogart

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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