



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 3022
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 10W30 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0863247	WC0663192	WC0816643
Sample Date		Client Info		30 Jan 2024	02 Nov 2023	03 Aug 2023
Machine Age	mls	Client Info		314800	298880	279227
Oil Age	mls	Client Info		36089	20182	39409
Filter Age	mls	Client Info		36089	20182	39409
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	11	29
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	6	13
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	19	4	6
Tin	ppm	ASTM D5185m	>15	2	1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

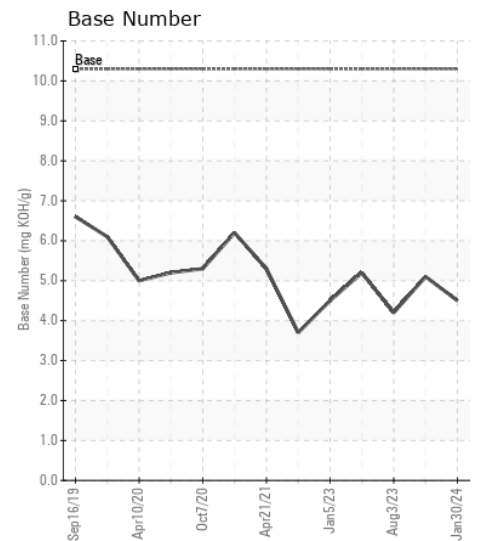
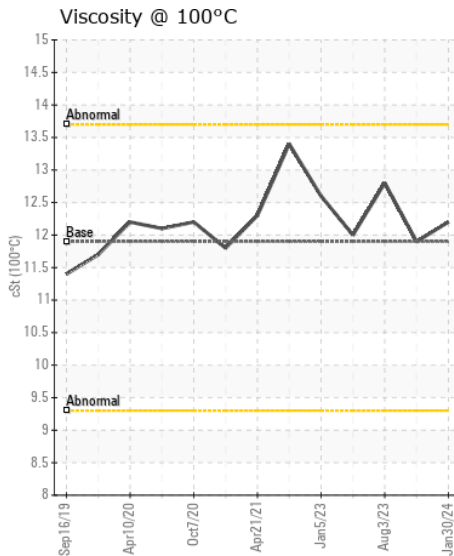
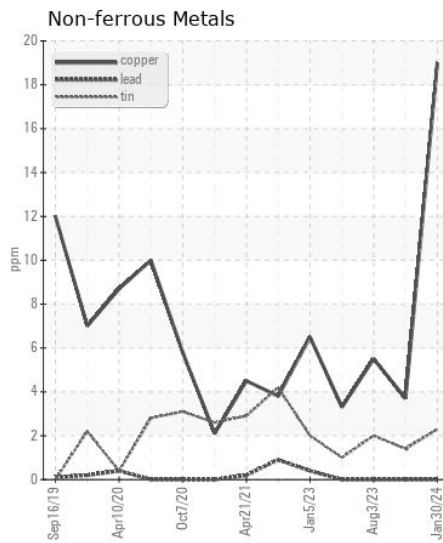
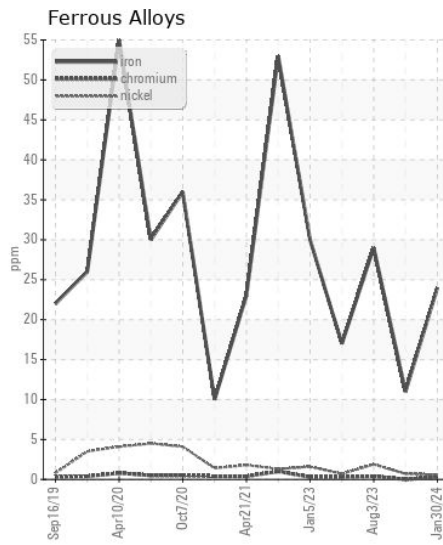
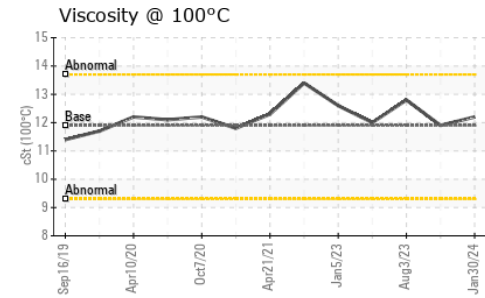
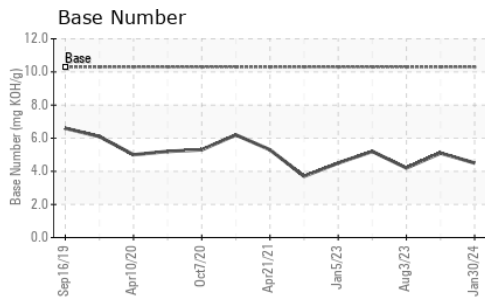
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	6	8
Potassium	ppm	ASTM D5185m	>20	6	6	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.0	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	23.5	28.4
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

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.

Sodium	ppm	ASTM D5185m		3	3	3
Boron	ppm	ASTM D5185m		26	30	30
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		1	1	2
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		817	795	772
Calcium	ppm	ASTM D5185m	2900	1440	1443	1421
Phosphorus	ppm	ASTM D5185m	1100	770	783	744
Zinc	ppm	ASTM D5185m	1200	902	893	887
Sulfur	ppm	ASTM D5185m	4000	3074	3114	3106
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	19.1	25.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	4.5	5.1	4.2
Visc @ 100°C	cSt	ASTM D445	11.9	12.2	11.9	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0863247

Lab Number : 06084201

Unique Number : 10871646

Test Package : FLEET

Received : 08 Feb 2024

Tested : 09 Feb 2024

Diagnosed : 09 Feb 2024 - Wes Davis

LTI/MILKY WAY - SUNNYSIDE

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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)