



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 3923
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		WC0663224	WC0863273	WC0663194
Sample Date		Client Info		05 Feb 2024	16 Dec 2023	07 Nov 2023
Machine Age	mls	Client Info		351263	347587	346695
Oil Age	mls	Client Info		3952	309143	37552
Filter Age	mls	Client Info		3952	38444	37552
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	43	37
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	11	10
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	6	24	28
Tin	ppm	ASTM D5185m	>15	1	3	3
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

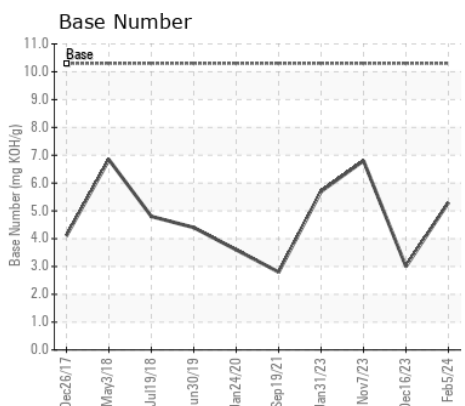
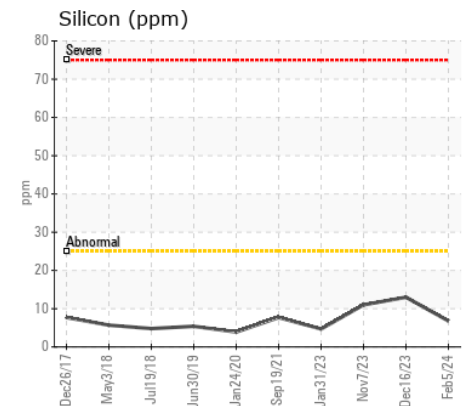
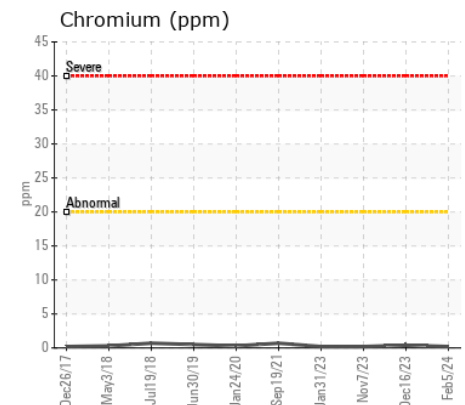
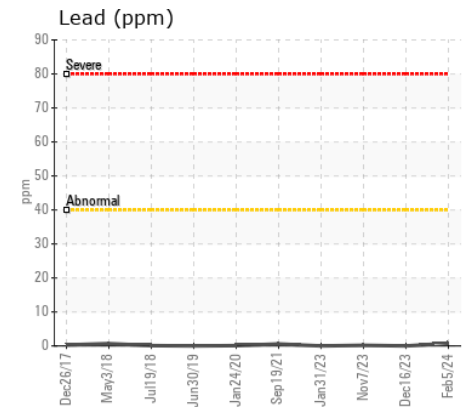
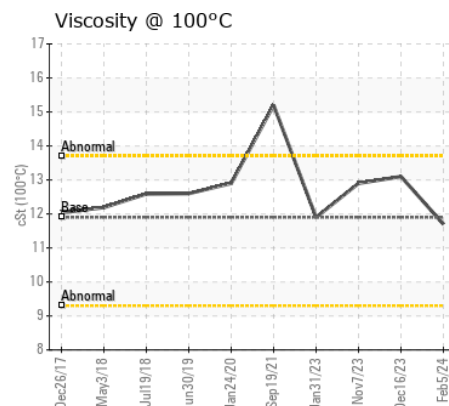
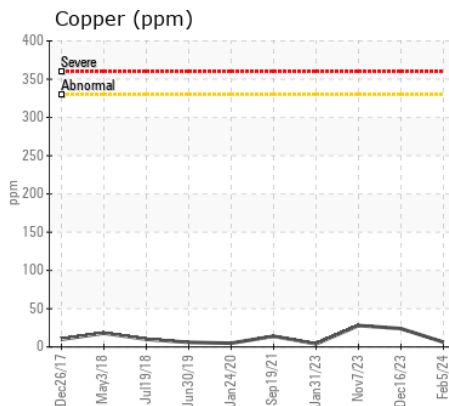
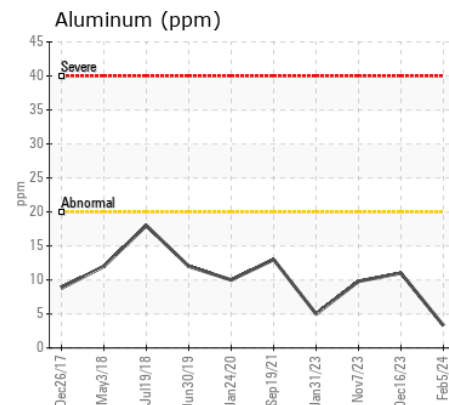
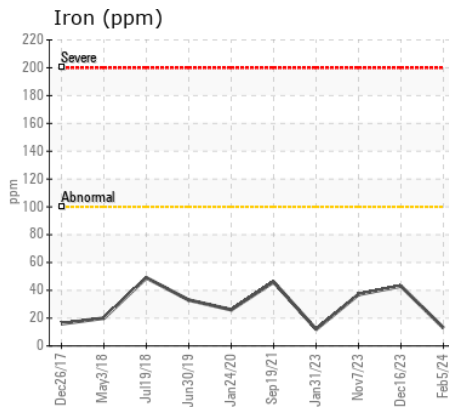
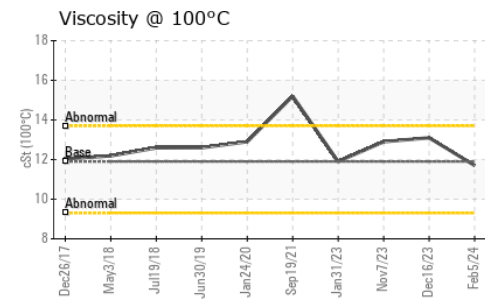
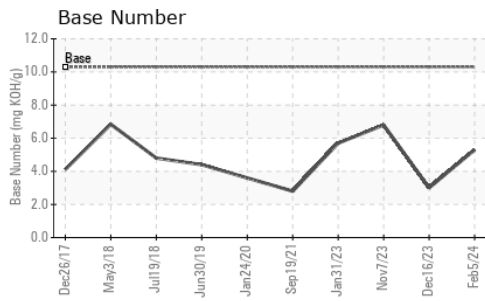
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	13	11
Potassium	ppm	ASTM D5185m	>20	8	20	19
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	0.3	0.9	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	14.7	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	29.8	17.8
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		12	▲ 86	74
Boron	ppm	ASTM D5185m		63	18	18
Barium	ppm	ASTM D5185m		13	<1	0
Molybdenum	ppm	ASTM D5185m		8	37	36
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		727	808	789
Calcium	ppm	ASTM D5185m	2900	1340	1435	1439
Phosphorus	ppm	ASTM D5185m	1100	762	790	754
Zinc	ppm	ASTM D5185m	1200	832	900	900
Sulfur	ppm	ASTM D5185m	4000	3554	2998	3068
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	30.3	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	5.3	▲ 3.0	6.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.7	13.1	12.9



Certificate L2367

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

Sample No. : WC0663224

Lab Number : 06086566

Unique Number : 10874011

Test Package : MOB 1 (Additional Tests: TBN)

Received : 12 Feb 2024

Tested : 13 Feb 2024

Diagnosed : 13 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)