



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 3045
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0833156	WC0833187	WC0702420
Sample Date		Client Info		29 Nov 2023	10 Aug 2023	13 May 2023
Machine Age	mls	Client Info		571455	525233	38445
Oil Age	mls	Client Info		46222	36129	38445
Filter Age	mls	Client Info		46222	36129	38445
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	8	21
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	6
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	13	8	11
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

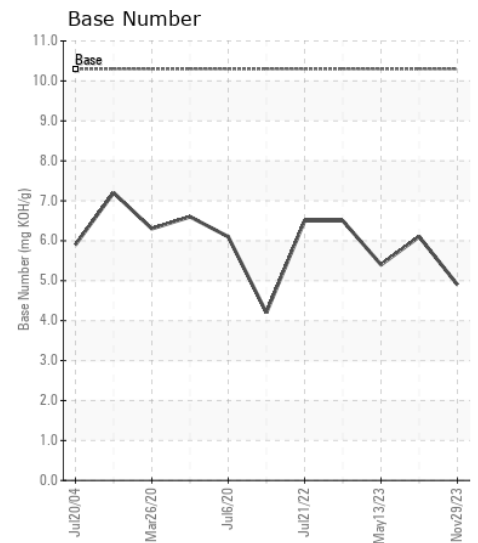
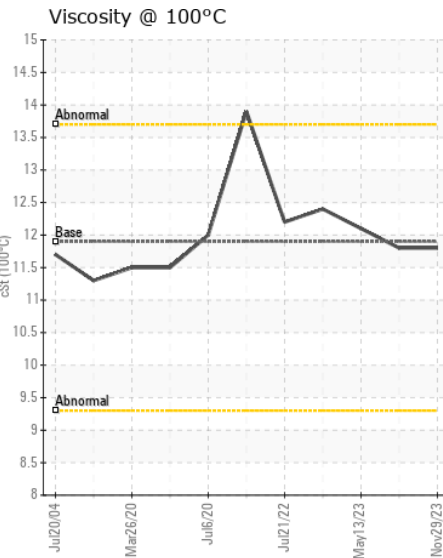
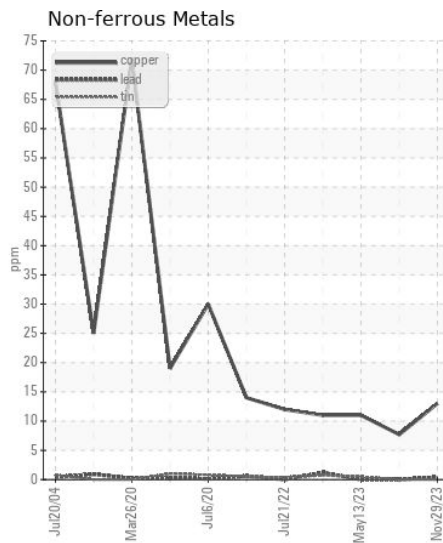
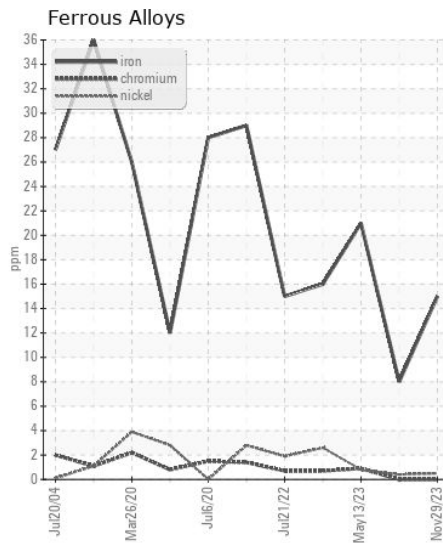
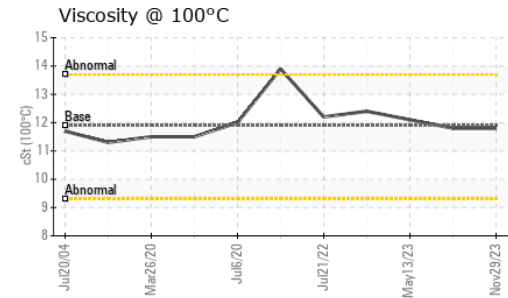
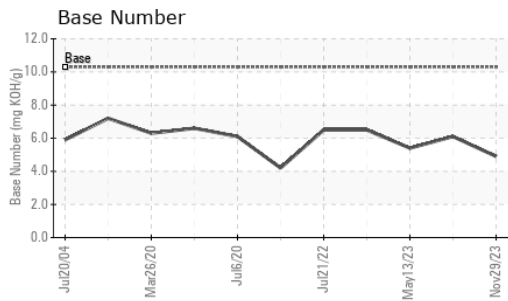
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	10
Potassium	ppm	ASTM D5185m	>20	3	3	5
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	0.6	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.4	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	21.3	25.9
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		7	3	3
Boron	ppm	ASTM D5185m		15	25	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	2
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		789	774	821
Calcium	ppm	ASTM D5185m	2900	1398	1478	1505
Phosphorus	ppm	ASTM D5185m	1100	712	705	726
Zinc	ppm	ASTM D5185m	1200	907	832	887
Sulfur	ppm	ASTM D5185m	4000	2835	3317	3612
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	16.4	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	4.9	6.1	5.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.8	11.8	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0833156 **Received** : 11 Jan 2024
Lab Number : 06057678 **Diagnosed** : 12 Jan 2024
Unique Number : 10823627 **Diagnostician** : Sean Felton
Test Package : FLEET

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)

LTI/MILKY WAY - MOSES
 120 WISER LANE
 MOSES LAKE, WA
 US 98837

Contact: MIGUEL PEREZ
 mperez@lynden.com; dougb@wearcheckusa.com

T: (509)765-5840
 F: (509)765-5636