



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**KENWORTH 760**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (18 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0778894</b>	WC0707327	WC0707313
Sample Date		Client Info		<b>12 Sep 2023</b>	30 Sep 2022	08 Apr 2022
Machine Age	mls	Client Info		<b>9556</b>	8429	7880
Oil Age	mls	Client Info		<b>450</b>	450	450
Filter Age	mls	Client Info		<b>450</b>	450	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>30</b>	33	18
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	3	<1
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	5	6
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

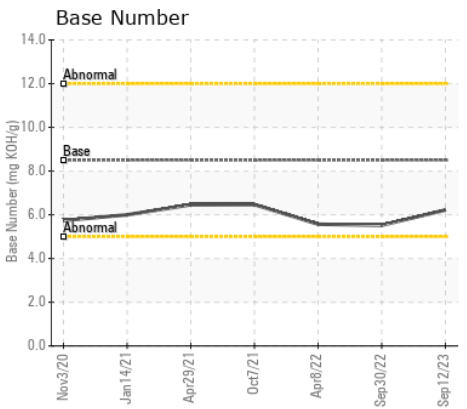
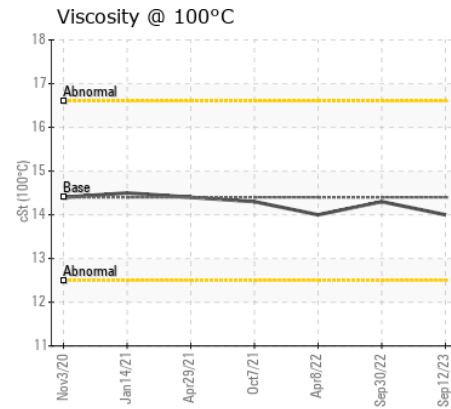
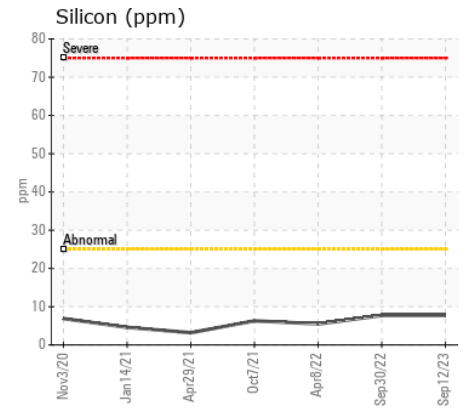
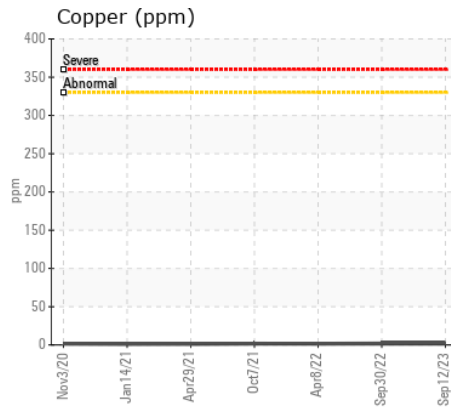
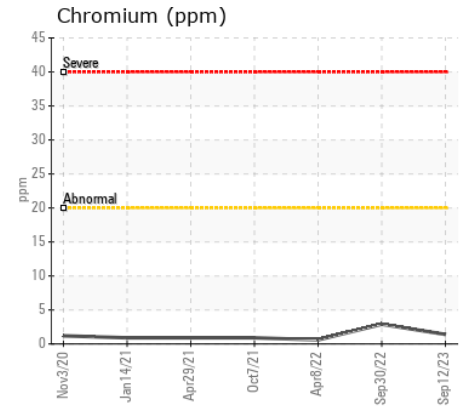
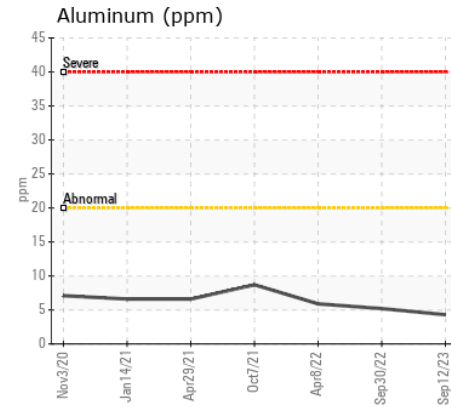
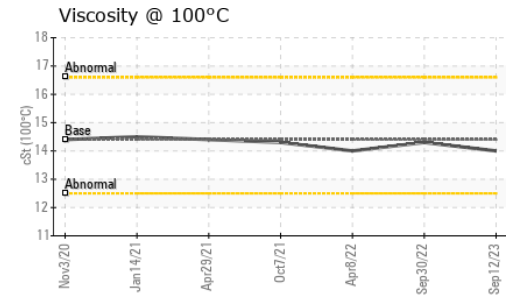
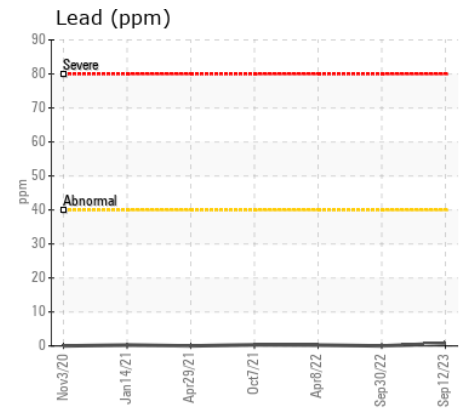
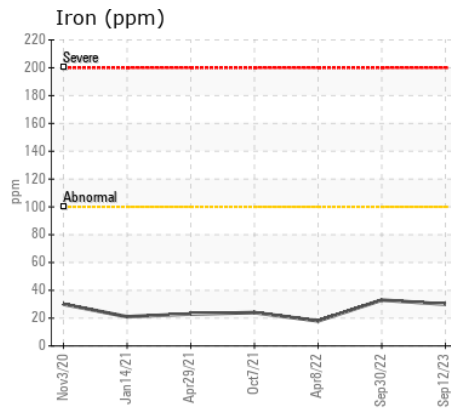
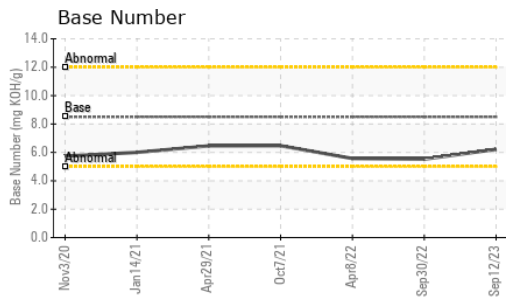
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	5	6
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	12.9	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.5</b>	27.9	23.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	>158	<b>2</b>	4	1
Boron	ppm	ASTM D5185m	250	<b>31</b>	42	49
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>3</b>	14	5
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	450	<b>758</b>	672	674
Calcium	ppm	ASTM D5185m	3000	<b>1372</b>	1412	1350
Phosphorus	ppm	ASTM D5185m	1150	<b>703</b>	721	695
Zinc	ppm	ASTM D5185m	1350	<b>858</b>	897	821
Sulfur	ppm	ASTM D5185m	4250	<b>3233</b>	3171	3517
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.4</b>	23.7	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.22</b>	5.52	5.57
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.0</b>	14.3	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0778894 **Received** : 08 Jan 2024  
**Lab Number** : 06055049 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820998 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**LYNDEN TRANSPORT - FIFE**  
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 FIFE, WA  
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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)