



# OIL ANALYSIS REPORT

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

Area  
**SOUTH HOLLAND**  
Machine Id  
**KENWORTH T800W ST35 (S/N 447784)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL 10W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0005171</b>	HPL0004492	HPL0002793
Sample Date		Client Info		<b>16 May 2024</b>	19 Jan 2024	20 Sep 2023
Machine Age	mls	Client Info		<b>5456</b>	4793	5459
Oil Age	mls	Client Info		<b>0</b>	0	690
Filter Age	mls	Client Info		<b>0</b>	0	690
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>26</b>	26	28
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	8	9
Lead	ppm	ASTM D5185m	>40	<b>2</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

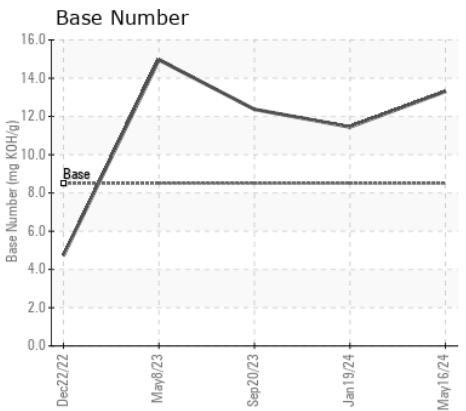
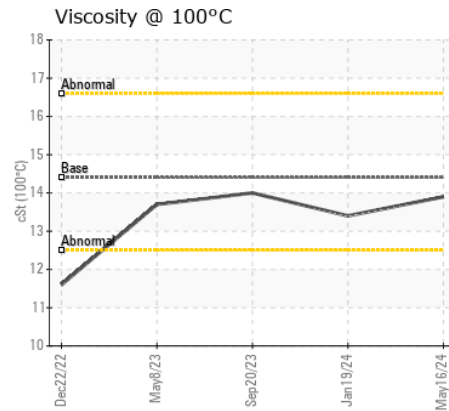
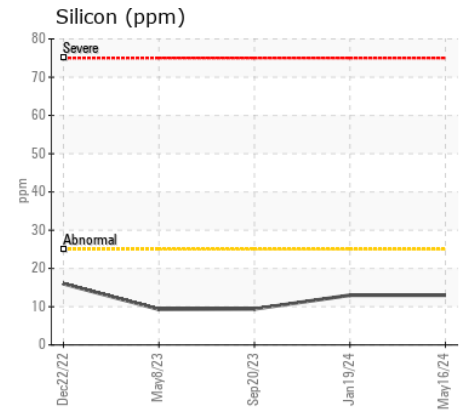
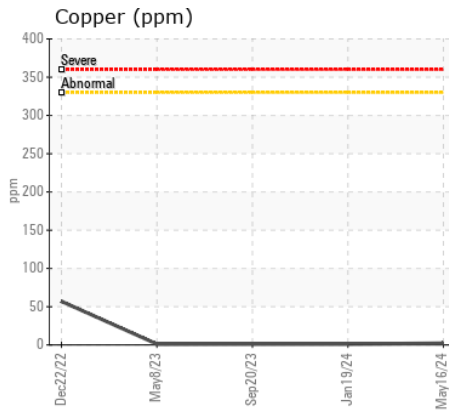
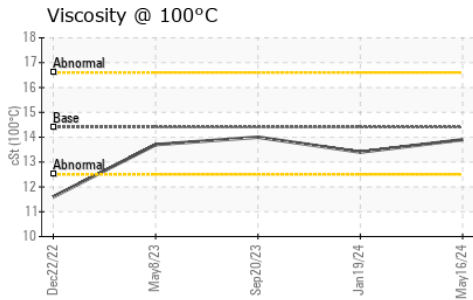
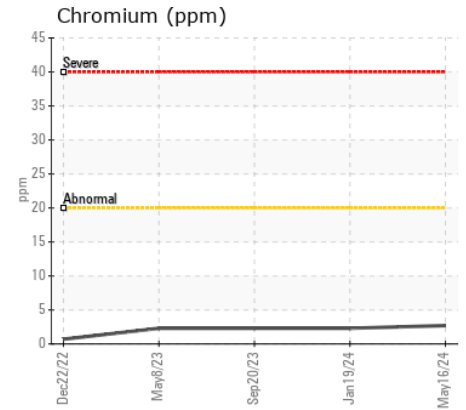
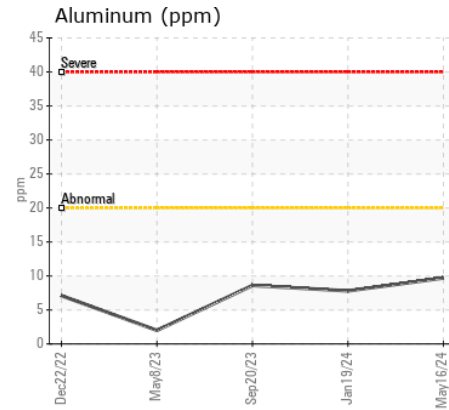
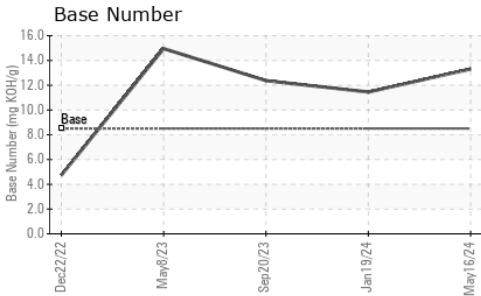
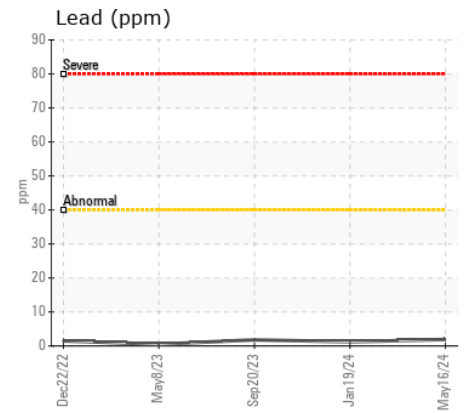
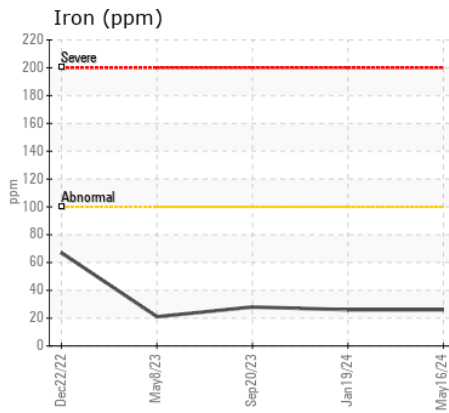
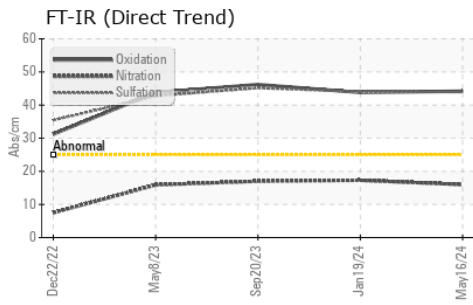
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	13	9
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	2
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	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.0</b>	17.3	17.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>43.9</b>	44.0	45.1
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		<b>2</b>	<1	1
Boron	ppm	ASTM D5185m	250	<b>0</b>	3	0
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>607</b>	563	649
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	450	<b>1000</b>	978	1083
Calcium	ppm	ASTM D5185m	3000	<b>2735</b>	2545	2709
Phosphorus	ppm	ASTM D5185m	1150	<b>1087</b>	1068	1090
Zinc	ppm	ASTM D5185m	1350	<b>1308</b>	1228	1383
Sulfur	ppm	ASTM D5185m	4250	<b>9022</b>	8566	7812
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>44.2</b>	43.8	46.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>13.31</b>	11.45	12.37
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.9</b>	13.4	14.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0005171  
**Lab Number** : 06186888  
**Unique Number** : 11043640  
**Test Package** : MOB 2  
**Received** : 21 May 2024  
**Tested** : 23 May 2024  
**Diagnosed** : 23 May 2024 - Don Baldrige

**STEVENS ON CRANE**  
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Certificate L2367  
 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)