



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOUTH HOLLAND
Machine Id
KENWORTH T800 ST21 (S/N J468972)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0004176	HPL0003214	HPL0003631
Sample Date		Client Info		05 Feb 2024	05 Aug 2023	25 Apr 2023
Machine Age	hrs	Client Info		14414	13737	12992
Oil Age	hrs	Client Info		0	13737	732
Filter Age	hrs	Client Info		0	13737	732
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	20	17	22
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	1
Lead	ppm	ASTM D5185m	>150	4	3	8
Copper	ppm	ASTM D5185m	>90	1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

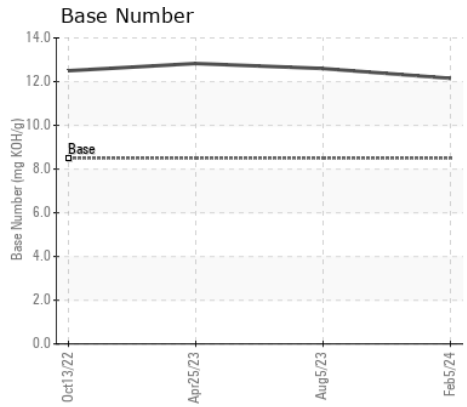
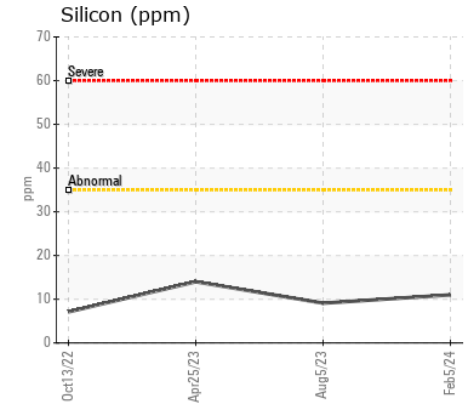
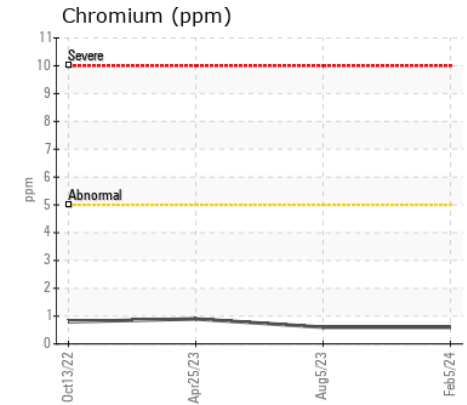
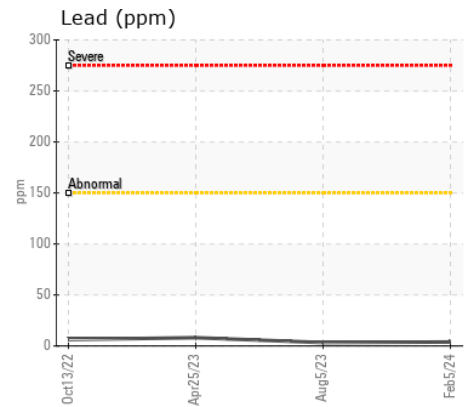
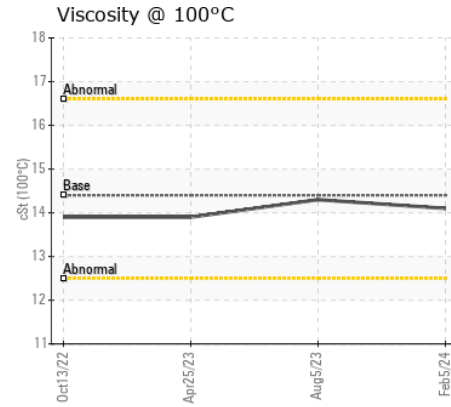
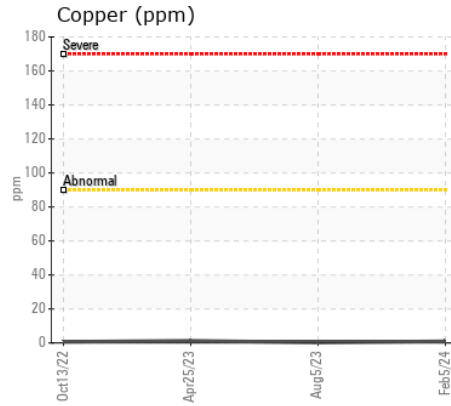
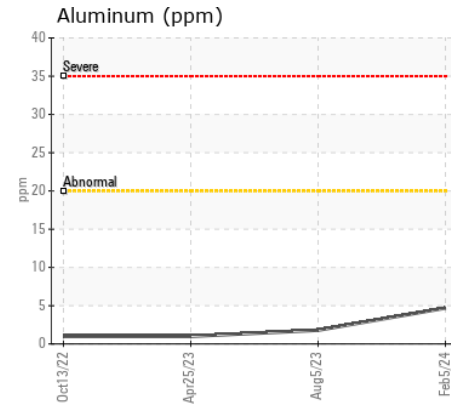
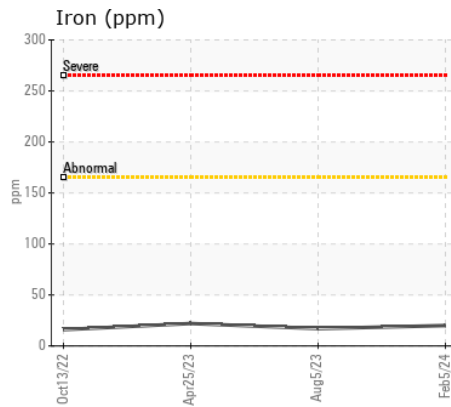
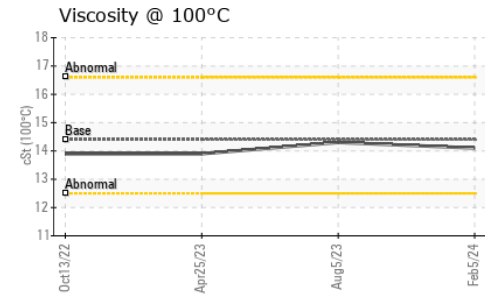
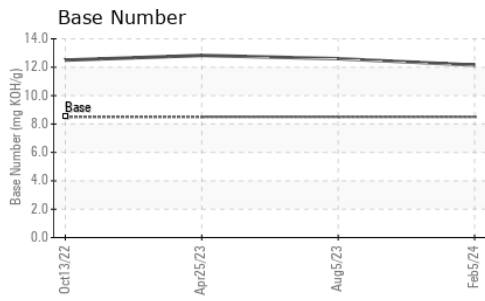
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	11	9	14
Potassium	ppm	ASTM D5185m	>20	4	2	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	15.0	15.0	15.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.3	41.9	41.6
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		1	<1	2
Boron	ppm	ASTM D5185m	250	4	0	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	601	587	597
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	1014	1076	1002
Calcium	ppm	ASTM D5185m	3000	2556	2673	2694
Phosphorus	ppm	ASTM D5185m	1150	1036	1040	1052
Zinc	ppm	ASTM D5185m	1350	1327	1384	1336
Sulfur	ppm	ASTM D5185m	4250	7686	9126	8527
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.5	45.6	45.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	12.15	12.60	12.83
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.3	13.9



Certificate L2367

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

Sample No. : HPL0004176

Lab Number : 06083149

Unique Number : 10870594

Test Package : MOB 2

Received : 07 Feb 2024

Tested : 08 Feb 2024

Diagnosed : 09 Feb 2024 - Sean Felton

STEVENS ON CRANE

410 STEVENSON DR

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US 60440

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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)