



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOUTH HOLLAND
Machine Id
SHUTTLE LIFT SS20 CD2505 (S/N 322505)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL 10W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0003820	HPL007894	---
Sample Date		Client Info		11 Apr 2024	28 Feb 2022	---
Machine Age	hrs	Client Info		3272	2642	---
Oil Age	hrs	Client Info		0	702	---
Filter Age	hrs	Client Info		0	702	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	49	35	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	10	4	---
Lead	ppm	ASTM D5185m	>40	5	5	---
Copper	ppm	ASTM D5185m	>330	10	8	---
Tin	ppm	ASTM D5185m	>15	2	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

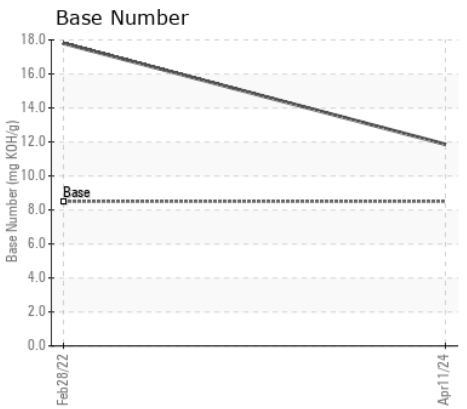
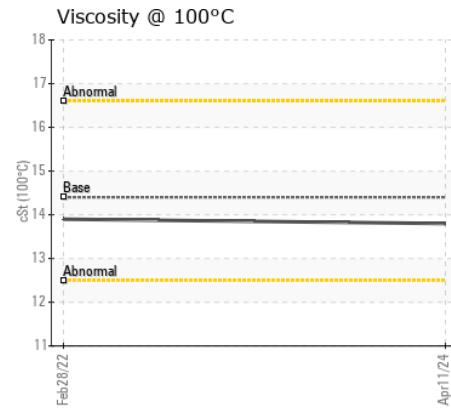
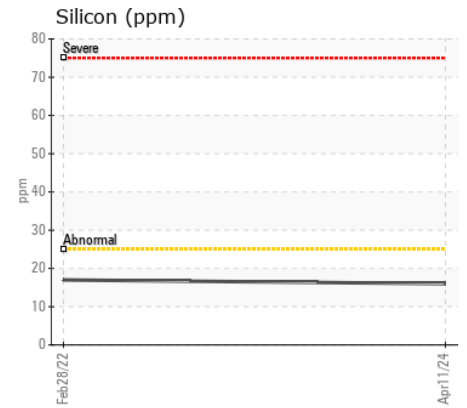
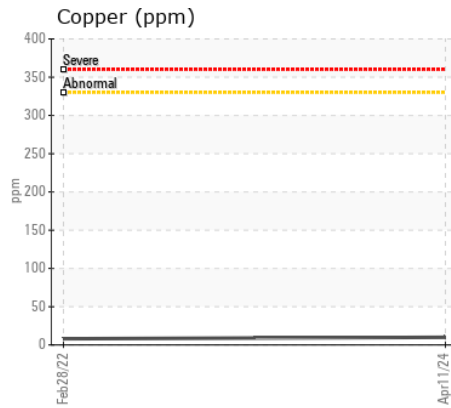
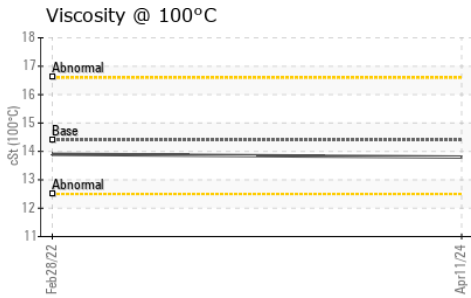
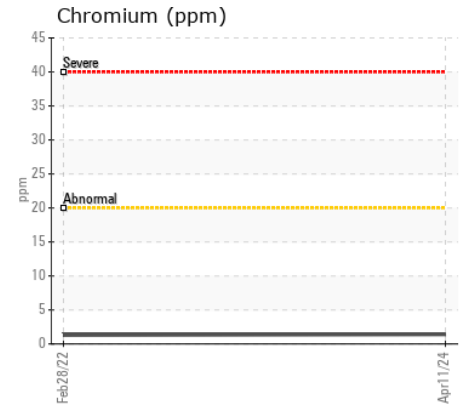
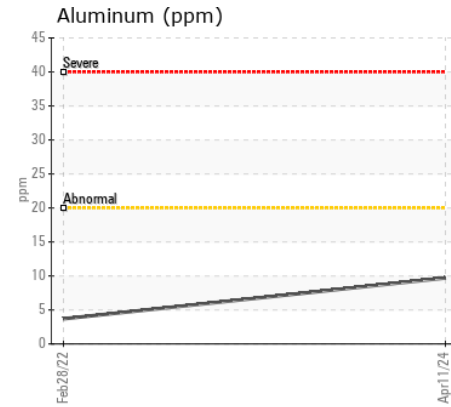
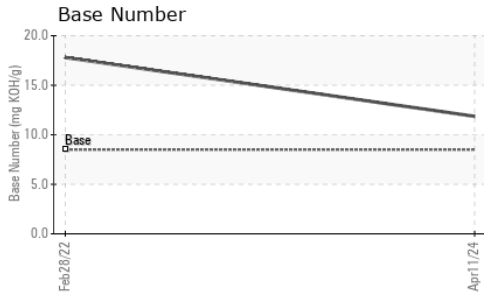
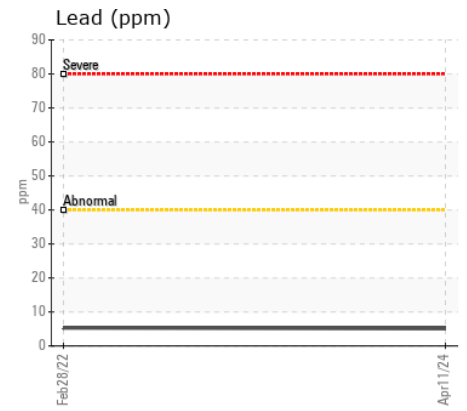
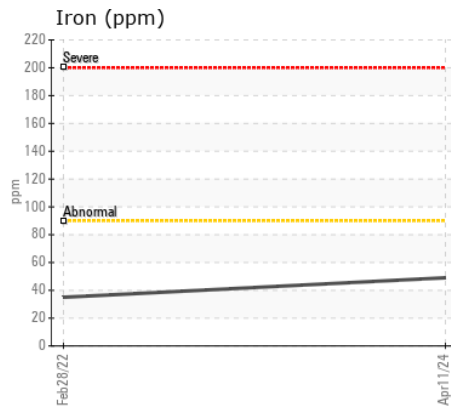
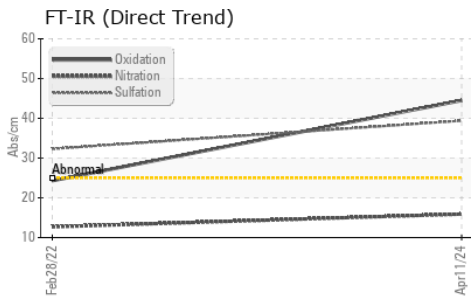
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	16	17	---
Potassium	ppm	ASTM D5185m	>20	9	<1	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	15.9	12.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	39.4	32.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m	250	31	197	---
Barium	ppm	ASTM D5185m	10	<1	0	---
Molybdenum	ppm	ASTM D5185m	100	569	646	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m	450	892	477	---
Calcium	ppm	ASTM D5185m	3000	2622	3883	---
Phosphorus	ppm	ASTM D5185m	1150	1070	860	---
Zinc	ppm	ASTM D5185m	1350	1229	981	---
Sulfur	ppm	ASTM D5185m	4250	9969	15254	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.5	24.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.86	17.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0003820
Lab Number : 06152180
Unique Number : 10982258
Test Package : MOB 2

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldrige

STEVENS ON CRANE
 410 STEVENSON DR
 BOLINGBROOK, IL
 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)

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