



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOUTH HOLLAND
Machine Id
GENIE ZX135 PL5001 (S/N ZX135H-5001)
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		HPL0005124	HPL0000118	---
Sample Date		Client Info		08 May 2024	03 Nov 2022	---
Machine Age	hrs	Client Info		409	56	---
Oil Age	hrs	Client Info		0	56	---
Filter Age	hrs	Client Info		0	56	---
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	>100	12	9	---
Chromium	ppm	ASTM D5185m	>20	3	3	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	2	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	8	10	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

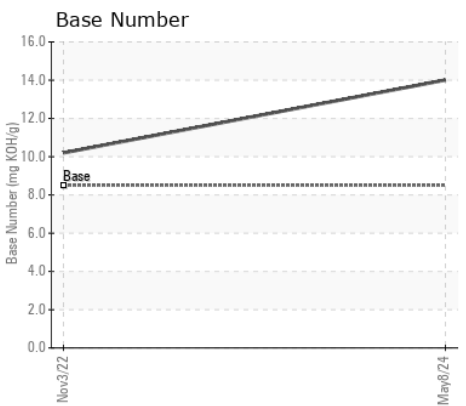
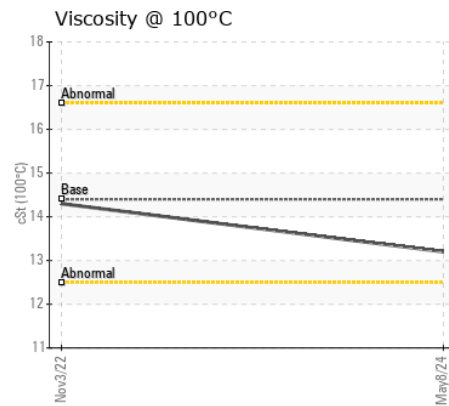
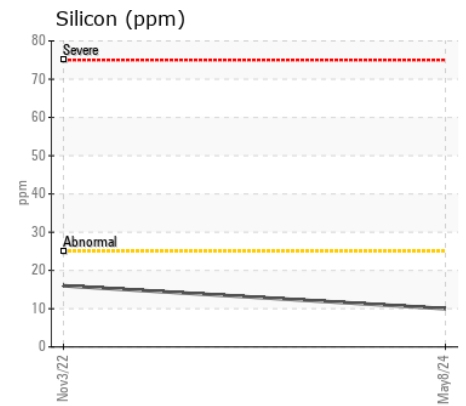
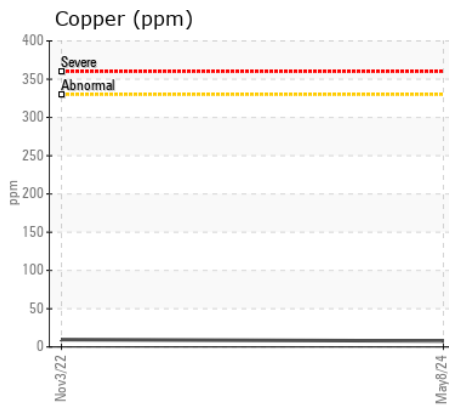
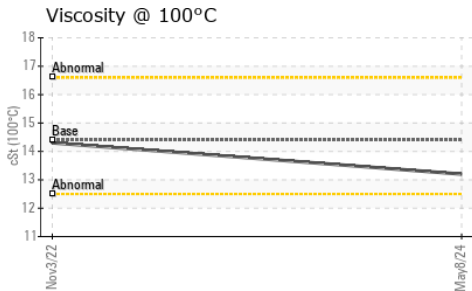
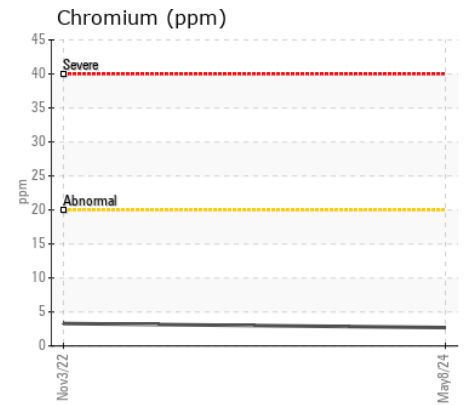
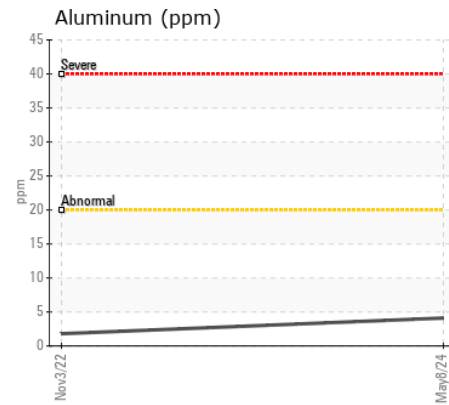
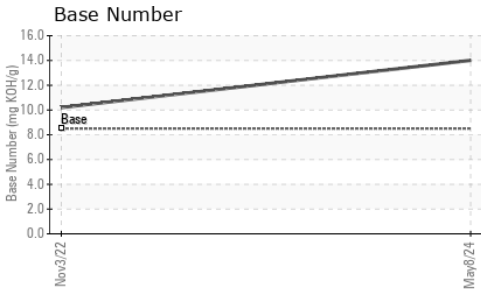
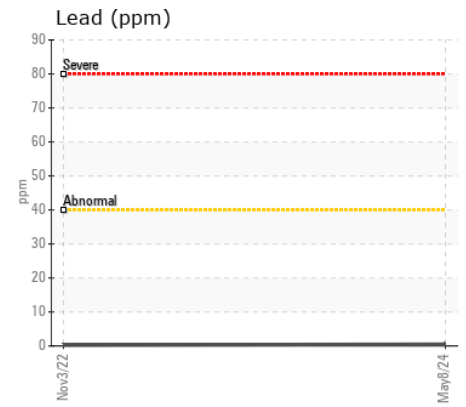
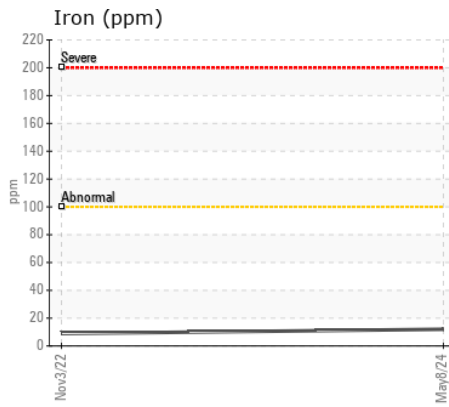
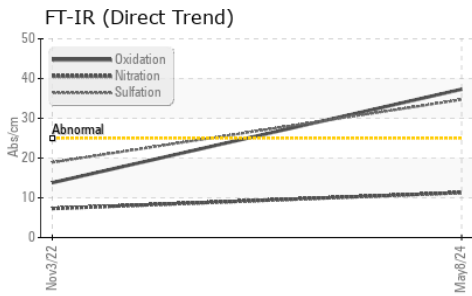
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	16	---
Potassium	ppm	ASTM D5185m	>20	2	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.3	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.7	18.9	---
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	4	---
Boron	ppm	ASTM D5185m	250	18	120	---
Barium	ppm	ASTM D5185m	10	3	12	---
Molybdenum	ppm	ASTM D5185m	100	502	2	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	976	679	---
Calcium	ppm	ASTM D5185m	3000	2490	1259	---
Phosphorus	ppm	ASTM D5185m	1150	1023	702	---
Zinc	ppm	ASTM D5185m	1350	1271	769	---
Sulfur	ppm	ASTM D5185m	4250	9769	3624	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.3	13.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	14.01	10.2	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	14.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : HPL0005124
 Lab Number : 06175713
 Unique Number : 11021766
 Test Package : MOB 2
 Received : 10 May 2024
 Tested : 13 May 2024
 Diagnosed : 13 May 2024 - Sean Felton

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F:

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)