



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
RAM H-14
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T6 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001310	WC0468774	---
Sample Date		Client Info		24 Jun 2024	20 Feb 2024	---
Machine Age	mls	Client Info		79976	75072	---
Oil Age	mls	Client Info		4667	30000	---
Filter Age	mls	Client Info		4667	300	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	18	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	3	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	<1	1	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

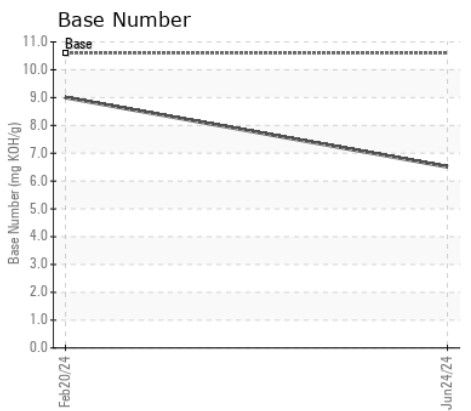
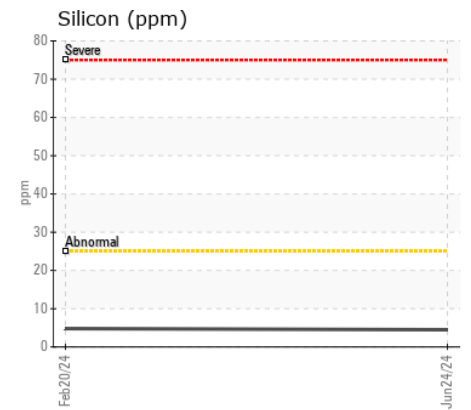
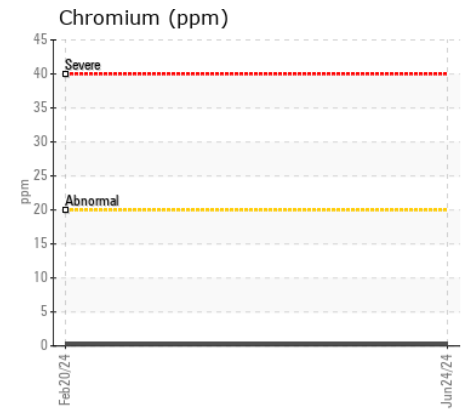
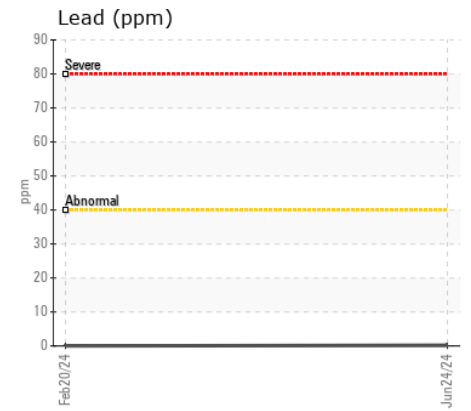
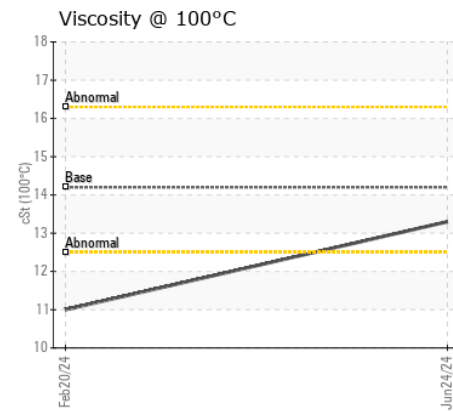
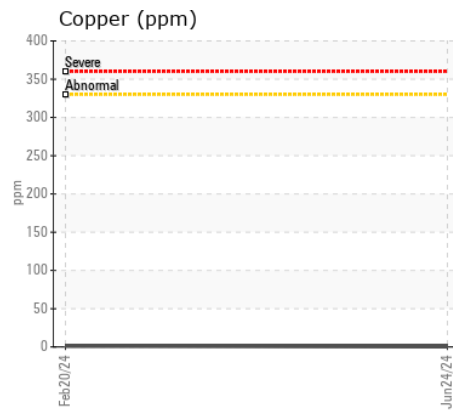
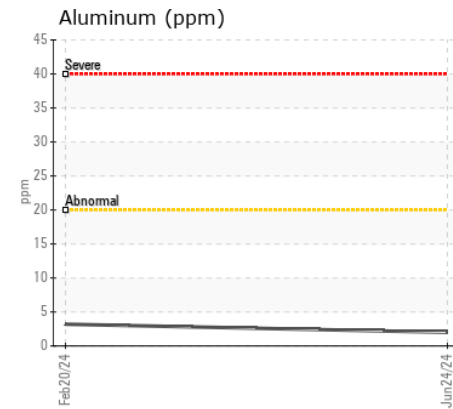
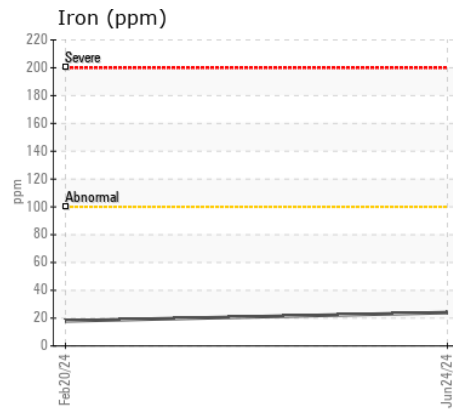
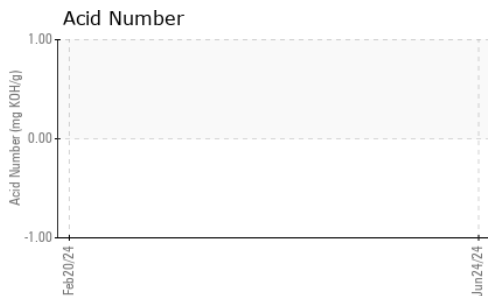
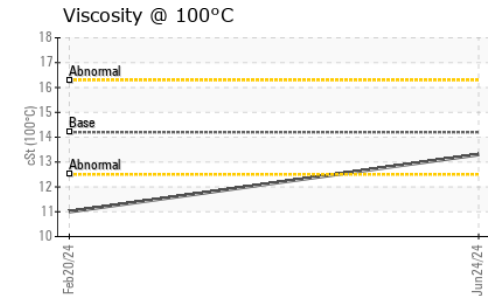
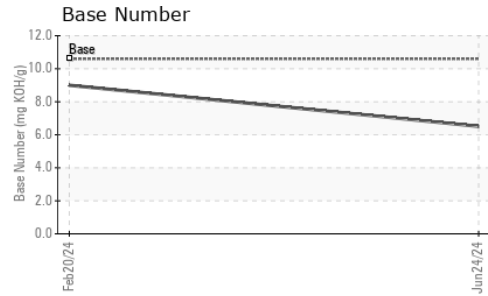
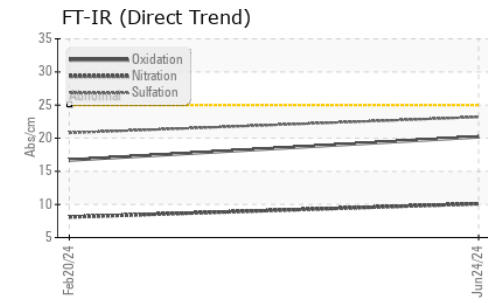
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	5	---
Potassium	ppm	ASTM D5185m	>20	4	0	---
Fuel		WC Method	>5	<1.0	▲ 3.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	20.8	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m		103	54	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		3	15	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		101	176	---
Calcium	ppm	ASTM D5185m		2215	2104	---
Phosphorus	ppm	ASTM D5185m		979	934	---
Zinc	ppm	ASTM D5185m		1125	1194	---
Sulfur	ppm	ASTM D5185m		3697	3499	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	16.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	6.51	9.00	---
Visc @ 100°C	cSt	ASTM D445	14.2	13.3	▲ 11.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001310 **Received** : 25 Jun 2024
Lab Number : 06220426 **Tested** : 27 Jun 2024
Unique Number : 11098623 **Diagnosed** : 27 Jun 2024 - Sean Felton
Test Package : MOB 2 (Additional Tests: TAN Man)

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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)