



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WESTERN STAR 14
Component
Diesel Engine
Fluid
DURALENE Dura-Max 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0033565	DC0013461	---
Sample Date		Client Info		26 Mar 2024	24 Feb 2022	---
Machine Age	mls	Client Info		486562	477528	---
Oil Age	mls	Client Info		3096	3202	---
Filter Age	mls	Client Info		3096	3202	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	49	---
Chromium	ppm	ASTM D5185m	>20	1	3	---
Nickel	ppm	ASTM D5185m	>4	<1	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	2	3	---
Lead	ppm	ASTM D5185m	>40	3	3	---
Copper	ppm	ASTM D5185m	>330	1	2	---
Tin	ppm	ASTM D5185m	>15	1	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

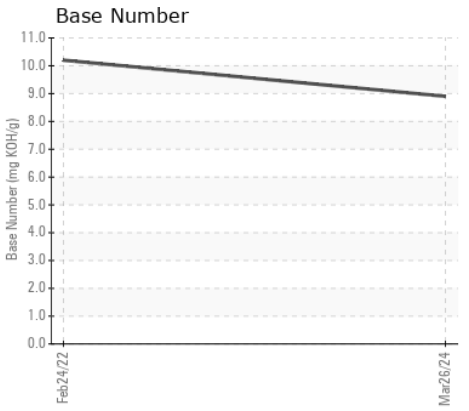
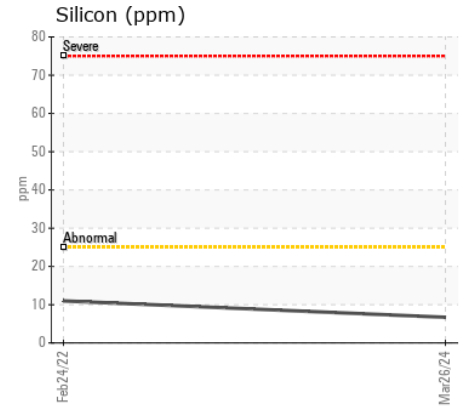
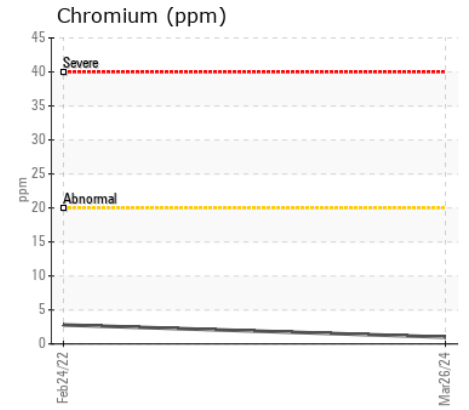
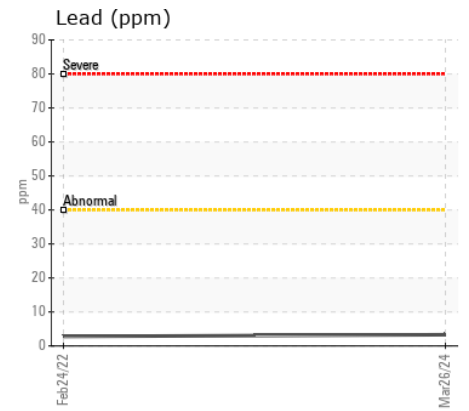
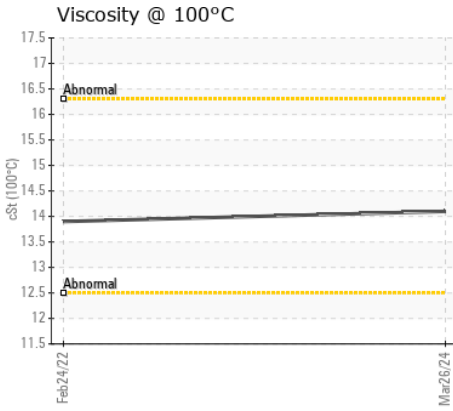
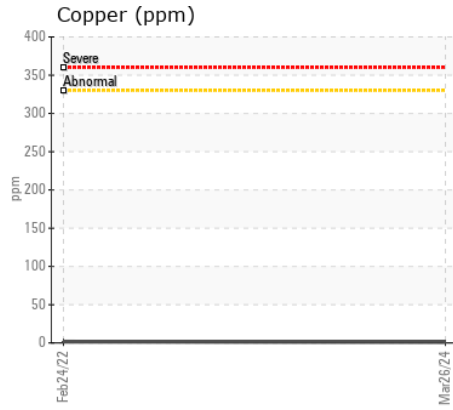
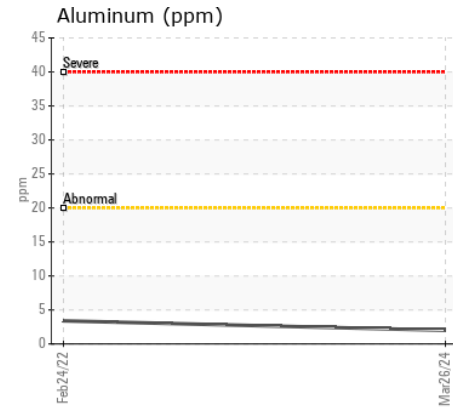
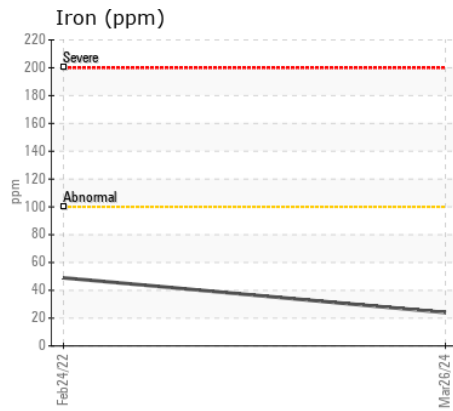
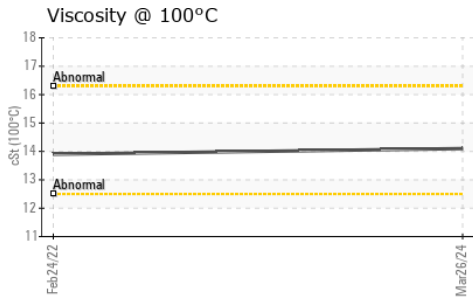
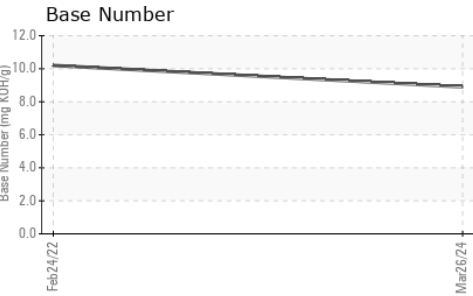
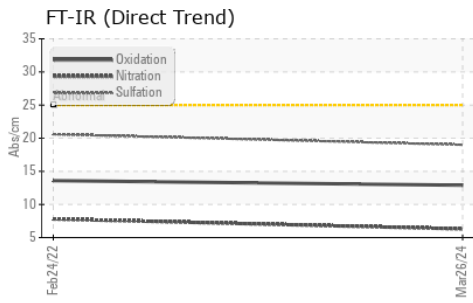
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	11	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	1.4	---
Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.6	---
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		0	2	---
Boron	ppm	ASTM D5185m		1	8	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		58	56	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		837	917	---
Calcium	ppm	ASTM D5185m		1207	1400	---
Phosphorus	ppm	ASTM D5185m		1071	1197	---
Zinc	ppm	ASTM D5185m		1182	1315	---
Sulfur	ppm	ASTM D5185m		3483	2978	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	13.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	10.2	---
Visc @ 100°C	cSt	ASTM D445		14.1	13.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033565 **Received** : 10 May 2024
Lab Number : 06176569 **Tested** : 13 May 2024
Unique Number : 11022622 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

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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