



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
901XC
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RW0005101	RW0004130	---
Sample Date		Client Info		13 Mar 2024	06 Jul 2023	---
Machine Age	hrs	Client Info		3000	1600	---
Oil Age	hrs	Client Info		500	540	---
Filter Age	hrs	Client Info		500	540	---
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	6	7	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	<1	<1	---
Lead	ppm	ASTM D5185m	>40	2	3	---
Copper	ppm	ASTM D5185m	>330	2	3	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

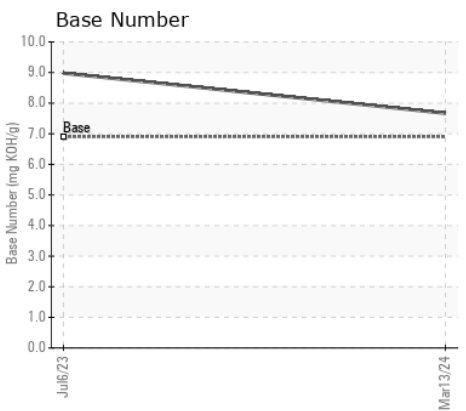
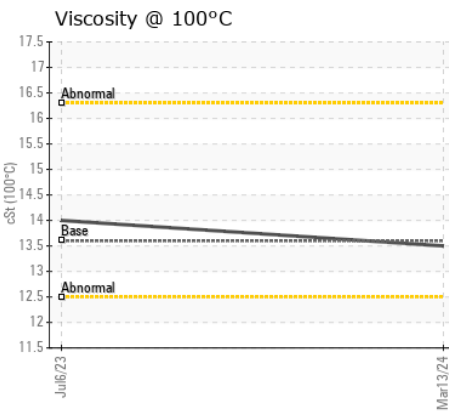
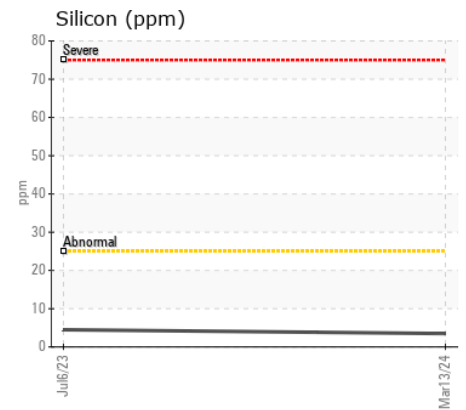
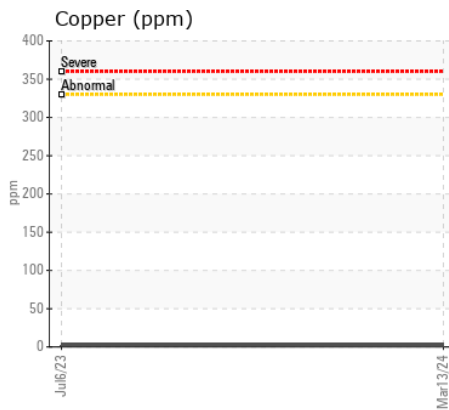
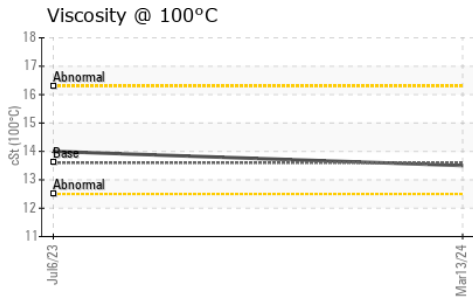
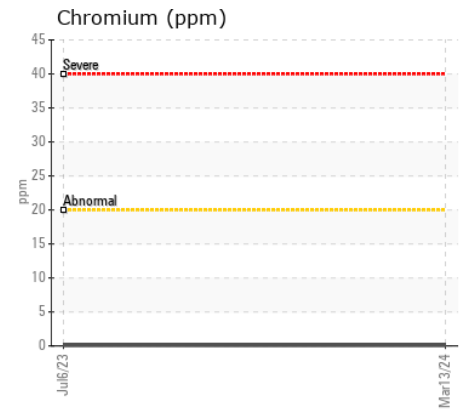
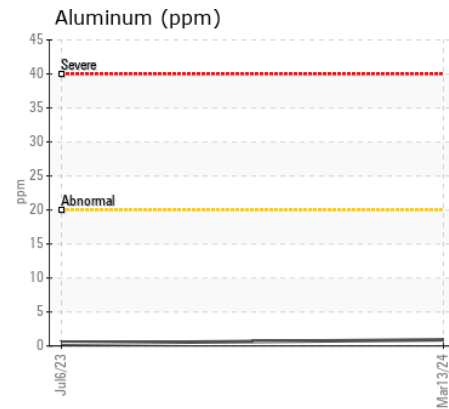
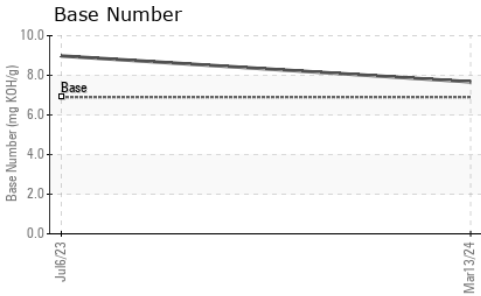
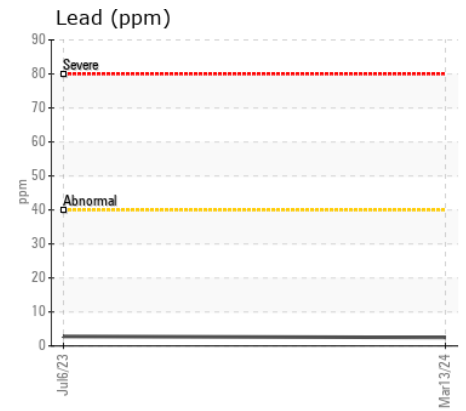
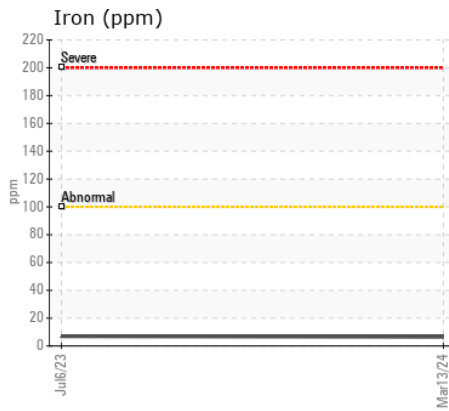
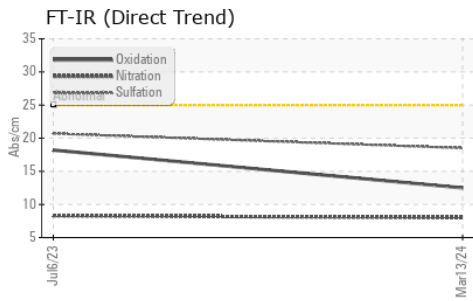
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
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	8.0	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.7	---
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		<1	2	---
Boron	ppm	ASTM D5185m	39	1	76	---
Barium	ppm	ASTM D5185m	1	0	0	---
Molybdenum	ppm	ASTM D5185m	49	9	61	---
Manganese	ppm	ASTM D5185m	1	0	<1	---
Magnesium	ppm	ASTM D5185m	616	39	414	---
Calcium	ppm	ASTM D5185m	1554	2517	2146	---
Phosphorus	ppm	ASTM D5185m	899	951	1092	---
Zinc	ppm	ASTM D5185m	1069	1128	1417	---
Sulfur	ppm	ASTM D5185m	2624	4430	4138	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	7.67	8.98	---
Visc @ 100°C	cSt	ASTM D445	13.6	13.5	14.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0005101
Lab Number : 06153340
Unique Number : 10983418
Test Package : MOB 2
Received : 18 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Sean Felton

CORDES FOREST
 PO BOX 277
 HILLMAN, MI
 US 49746

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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