



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GODWIN 001972
Component
Diesel Engine
Fluid
CASTROL VECTON 15W40 CK4 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0800383	WC0800519	WC0823930
Sample Date		Client Info		06 Feb 2024	04 Dec 2023	04 Oct 2023
Machine Age	hrs	Client Info		13962	13662	13372
Oil Age	hrs	Client Info		300	290	250
Filter Age	hrs	Client Info		300	290	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	8	9	10
Chromium	ppm	ASTM D5185m	>6	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>95	0	<1	<1
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>9	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

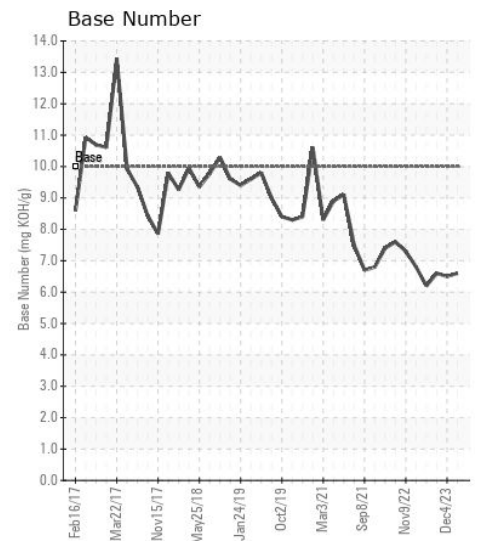
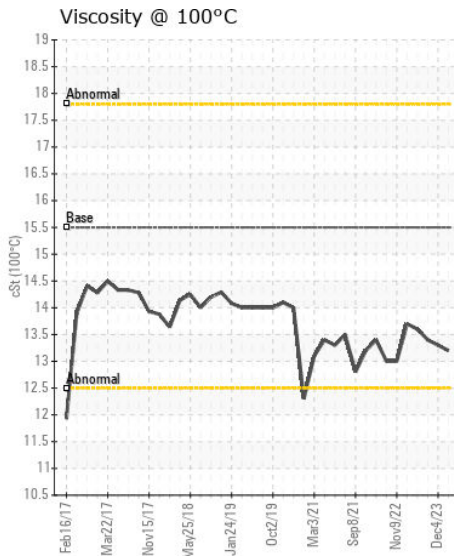
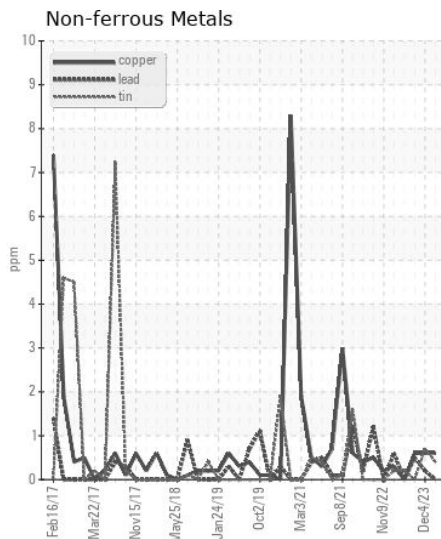
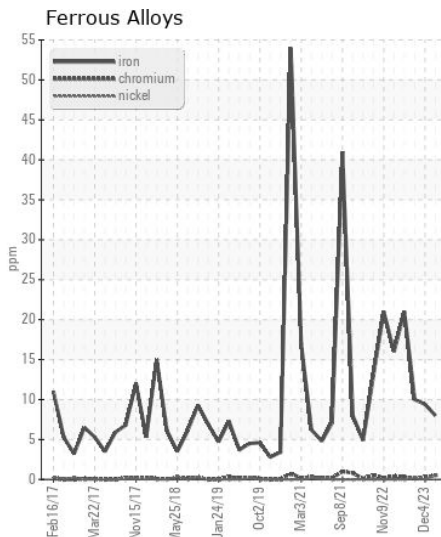
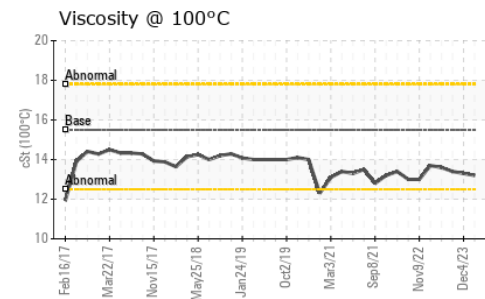
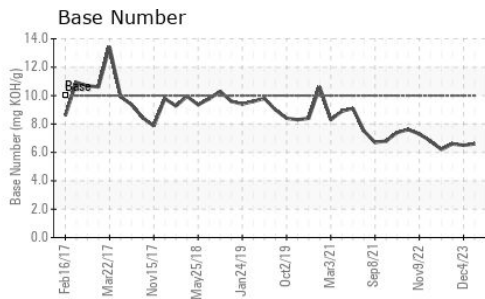
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	7	6
Potassium	ppm	ASTM D5185m	>20	2	0	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.8	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	17.2	16.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		<1	3	<1
Boron	ppm	ASTM D5185m		65	73	59
Barium	ppm	ASTM D5185m		<1	<1	2
Molybdenum	ppm	ASTM D5185m		83	86	81
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		84	76	58
Calcium	ppm	ASTM D5185m		1820	1926	1889
Phosphorus	ppm	ASTM D5185m		931	1037	895
Zinc	ppm	ASTM D5185m		1057	1161	1044
Sulfur	ppm	ASTM D5185m		3579	3598	3487
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.8	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.6	6.5	6.6
Visc @ 100°C	cSt	ASTM D445	15.5	13.2	13.3	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0800383

Lab Number : 06102271

Unique Number : 10900501

Test Package : CONST (Additional Tests: TBN)

Received : 27 Feb 2024

Tested : 28 Feb 2024

Diagnosed : 28 Feb 2024 - Wes Davis

CJ MILLER LLC

2903 DEDE RD

FINKSBURG, MD

US 21048

Contact: JOE ROSS

jross@cjmillerllc.com

T: (410)239-8006

F: (410)239-1051

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)