



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Contracting
 Machine Id
4400 4400
 Component
Gasoline Engine
 Fluid
SAE 30W (1 QTS)

RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919110	WC0784499	WCMCF06814
Sample Date		Client Info		24 Apr 2024	13 Feb 2023	06 May 2015
Machine Age	days	Client Info		0	0	67
Oil Age	days	Client Info		0	0	67
Filter Age	days	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	41	40	188
Chromium	ppm	ASTM D5185m	>20	3	3	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	8	10	5
Lead	ppm	ASTM D5185m	>50	<1	<1	2
Copper	ppm	ASTM D5185m	>155	1	1	<1
Tin	ppm	ASTM D5185m	>10	<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

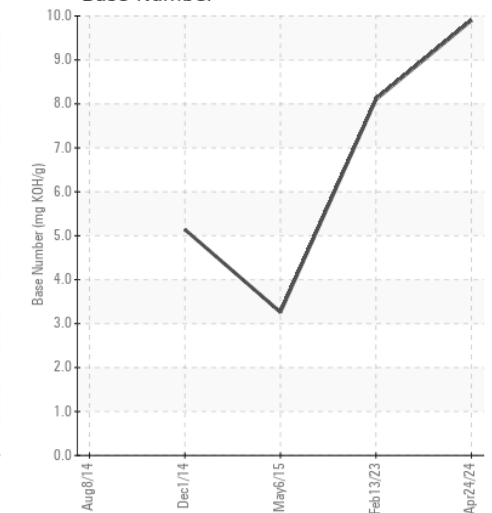
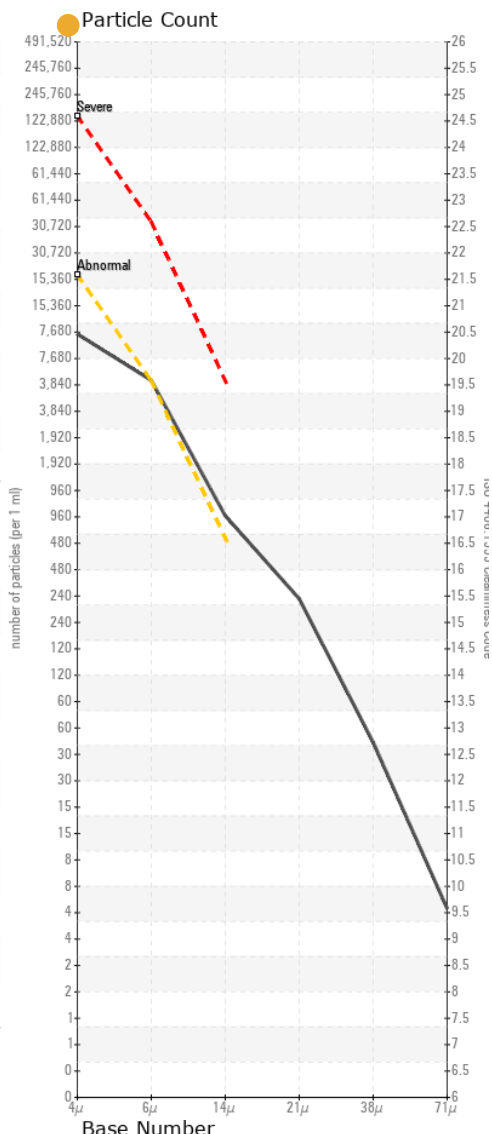
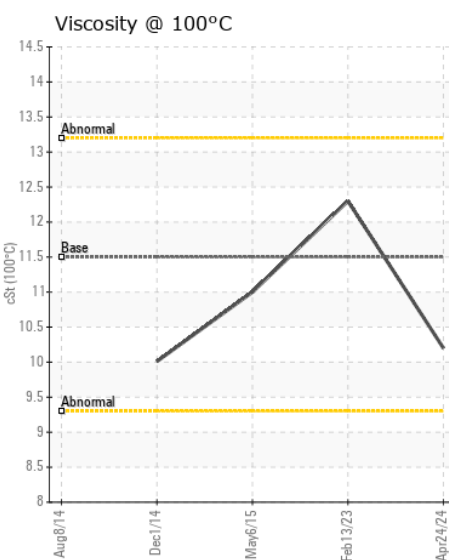
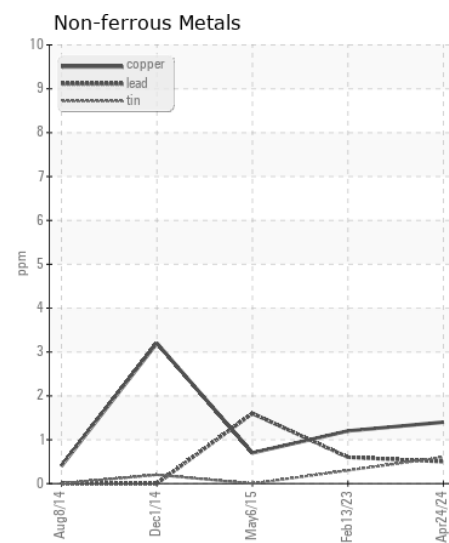
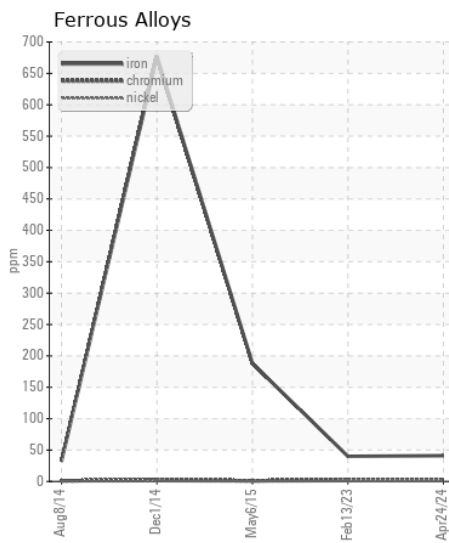
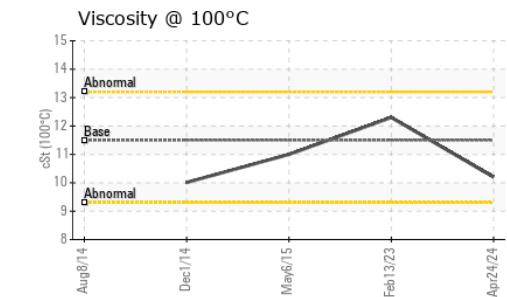
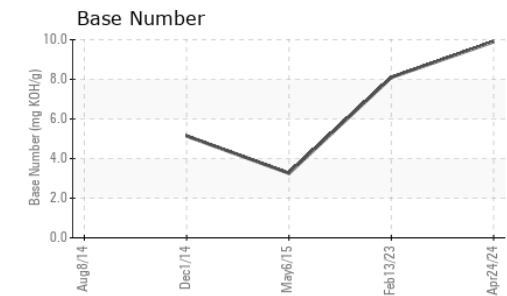
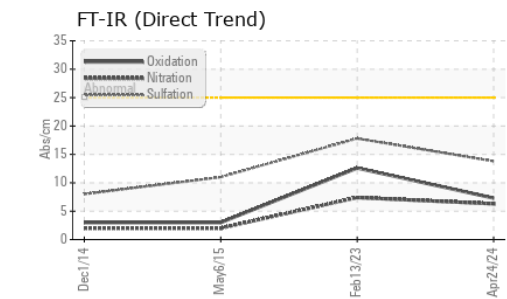
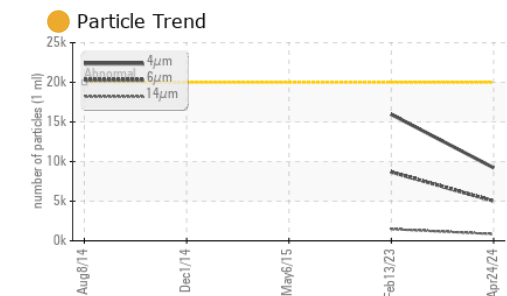
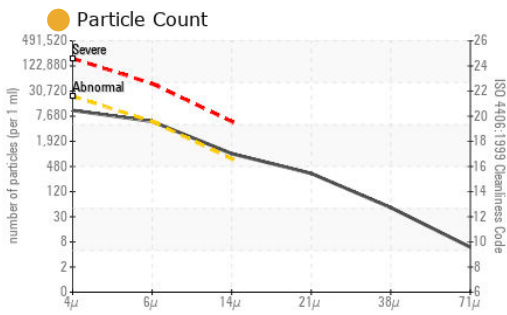
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>30	21	18	5
Potassium	ppm	ASTM D5185m	>20	3	2	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.4	2.
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.8	17.8	11.
Particles >4µm		ASTM D7647	>20000	9213	15955	---
Particles >6µm		ASTM D7647	>5000	5019	▲ 8692	---
Particles >14µm		ASTM D7647	>640	854	▲ 1479	---
Particles >21µm		ASTM D7647	>160	288	▲ 498	---
Particles >38µm		ASTM D7647	>40	44	▲ 77	---
Particles >71µm		ASTM D7647	>10	5	8	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/20/17	▲ 21/20/18	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	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	>400	5	3	7
Boron	ppm	ASTM D5185m		<1	126	<1
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		2	84	<1
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		30	163	0
Calcium	ppm	ASTM D5185m		3424	2004	57
Phosphorus	ppm	ASTM D5185m		899	948	379
Zinc	ppm	ASTM D5185m		1079	1135	444
Sulfur	ppm	ASTM D5185m		11067	4352	1676
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.3	12.6	3.
Base Number (BN)	mg KOH/g	ASTM D2896		9.9	8.1	▲ 3.26
Visc @ 100°C	cSt	ASTM D445	11.5	10.2	12.3	11.00



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919110 **Received** : 26 Apr 2024
Lab Number : 06161327 **Tested** : 30 Apr 2024
Unique Number : 10996750 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount, 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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