



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
STERLING HEIGHTS BAE
Machine Id
H0052
Component
Transmission
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0670652	WC0776954	WC05003500
Sample Date		Client Info		24 Jul 2023	10 Apr 2023	09 Jun 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	9	47	85
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	41	<1
Aluminum	ppm	ASTM D5185m	>50	2	10	2
Lead	ppm	ASTM D5185m	>50	3	9	<1
Copper	ppm	ASTM D5185m	>200	35	61	6
Tin	ppm	ASTM D5185m	>10	0	2	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE

CONTAMINATION

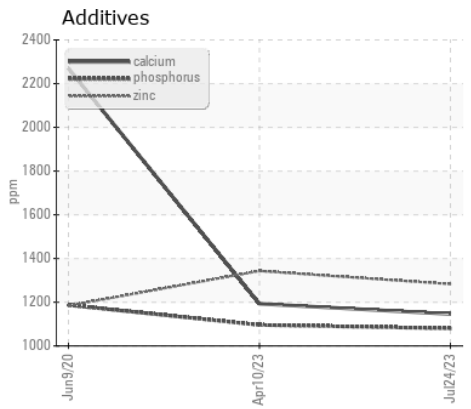
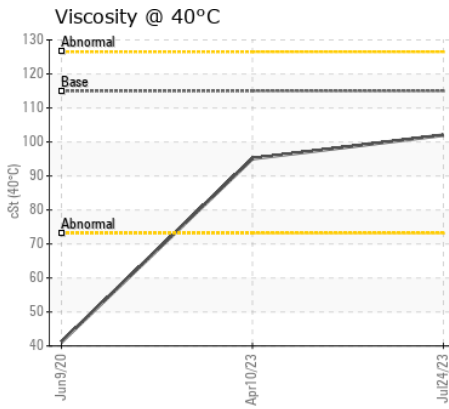
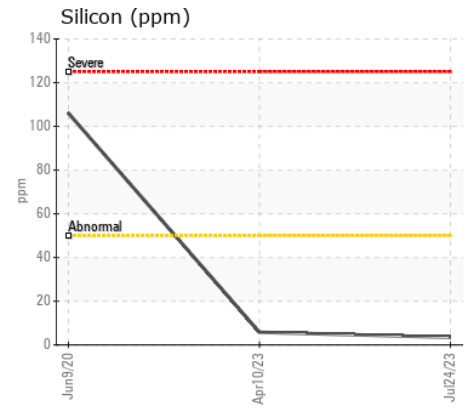
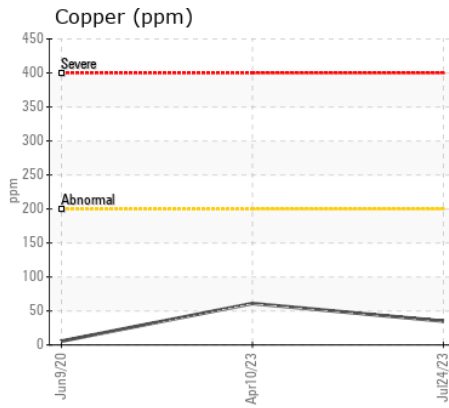
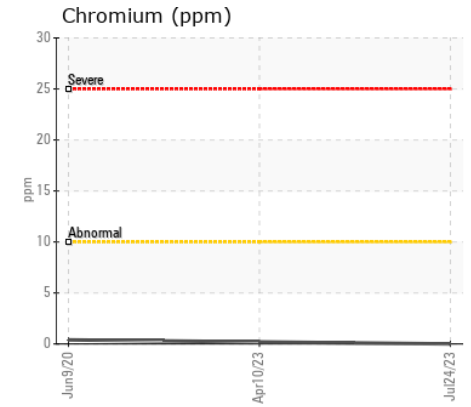
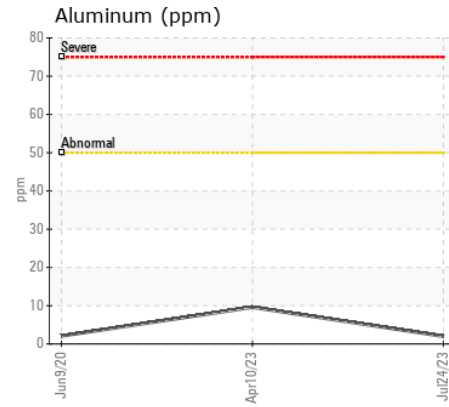
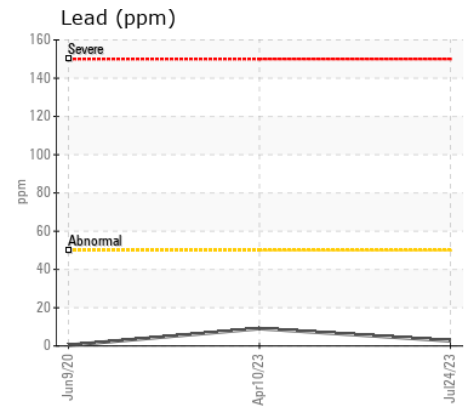
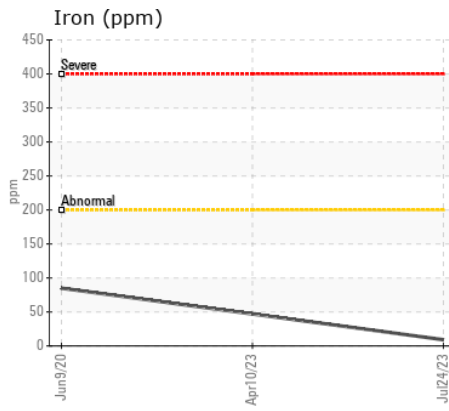
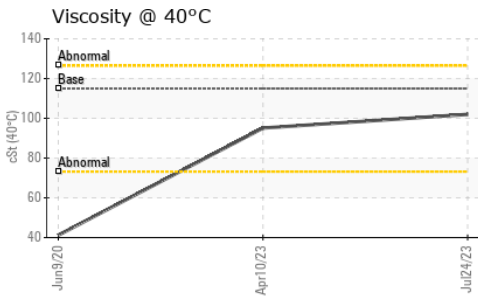
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	4	6	▲ 106
Potassium	ppm	ASTM D5185m	>20	0	1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	0.2%

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>158	1	2	7
Boron	ppm	ASTM D5185m	250	4	4	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	59	58	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	977	1025	201
Calcium	ppm	ASTM D5185m	3000	1146	1193	2270
Phosphorus	ppm	ASTM D5185m	1150	1080	1096	1187
Zinc	ppm	ASTM D5185m	1350	1283	1343	1184
Sulfur	ppm	ASTM D5185m	4250	4038	3979	3223
Visc @ 40°C	cSt	ASTM D445	115	102	● 95.1	41.2



Certificate L2367

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

Sample No. : WC0670652

Lab Number : 05907289

Unique Number : 10573941

Test Package : MOB 1

Received : 25 Jul 2023

Tested : 26 Jul 2023

Diagnosed : 27 Jul 2023 - Don Baldrige

BAE SYSTEMS

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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)