



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
American Augers 6205
Component
Diesel Engine
Fluid
DURALENE Dura-Max 15W40 (11 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0028442	DC0023897	DC0004166
Sample Date		Client Info		13 Mar 2024	18 Jan 2023	24 Sep 2020
Machine Age	hrs	Client Info		11343	10993	9424
Oil Age	hrs	Client Info		500	0	350
Filter Age	hrs	Client Info		500	0	350
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>91	18	25	28
Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>16	<1	1	0
Lead	ppm	ASTM D5185m	>41	5	3	1
Copper	ppm	ASTM D5185m	>22	▲ 275	▲ 241	13
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

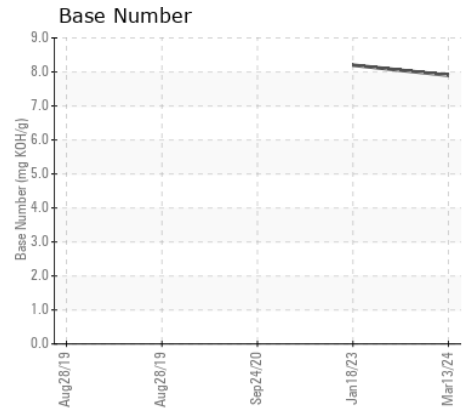
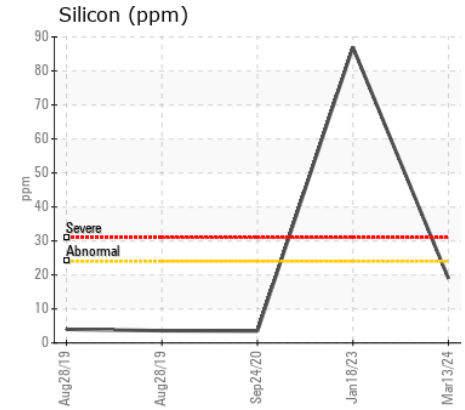
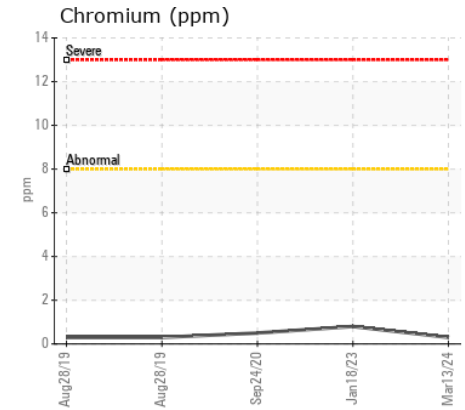
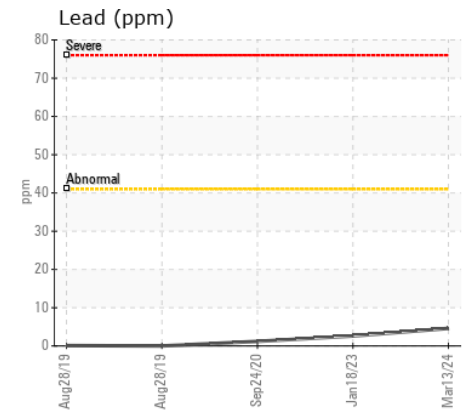
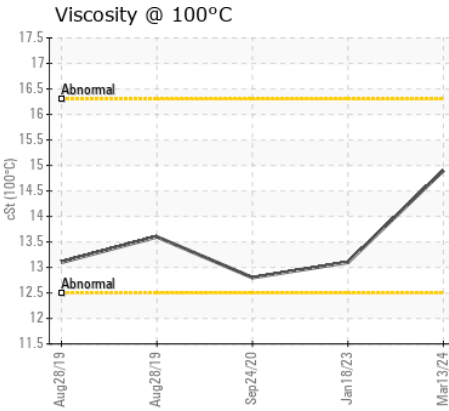
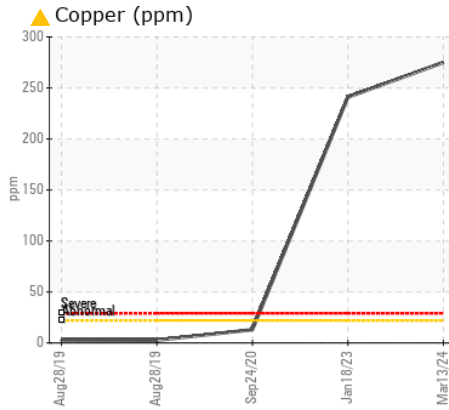
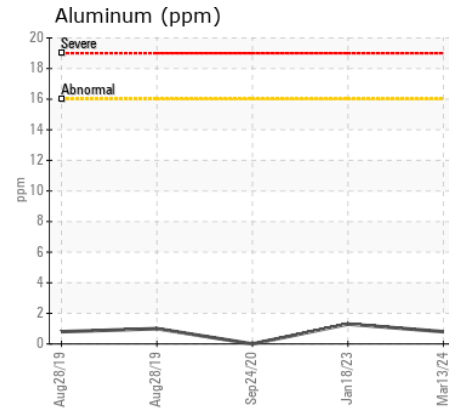
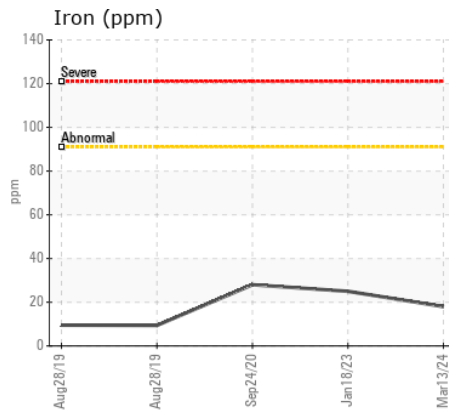
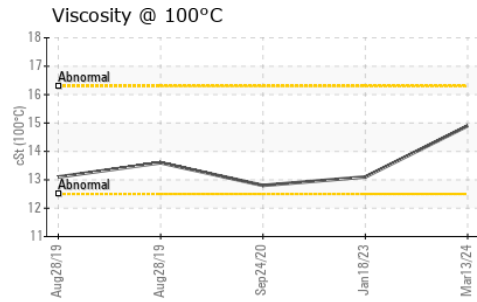
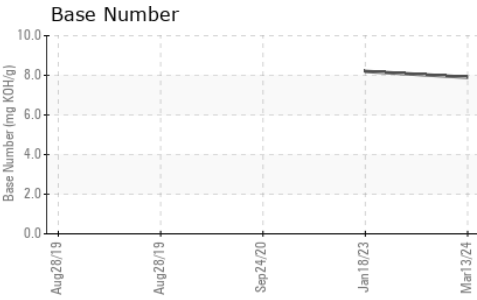
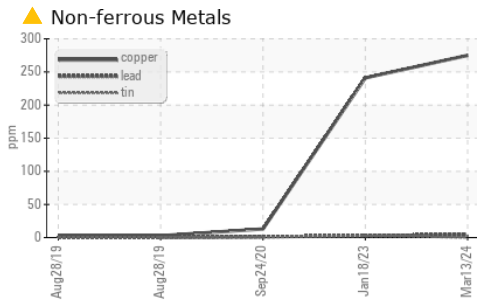
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	19	▲ 87	4
Potassium	ppm	ASTM D5185m	>20	3	18	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.5	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	25.5	21.3
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	>0.2	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		7	29	2
Boron	ppm	ASTM D5185m		42	60	5
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		29	39	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		357	457	34
Calcium	ppm	ASTM D5185m		1644	1601	2263
Phosphorus	ppm	ASTM D5185m		712	834	904
Zinc	ppm	ASTM D5185m		850	1053	1023
Sulfur	ppm	ASTM D5185m		3110	2979	3162
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9	26.5	15.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.20	---
Visc @ 100°C	cSt	ASTM D445		14.9	13.1	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0028442 **Received** : 19 Mar 2024
Lab Number : 06122954 **Tested** : 20 Mar 2024
Unique Number : 10937105 **Diagnosed** : 21 Mar 2024 - Don Baldrige
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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