TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TAYLOR THD-300M TAYLOR 300M (S/N S-T4-28889)
Component
Diesel Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (4 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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.

CONTAMINATION

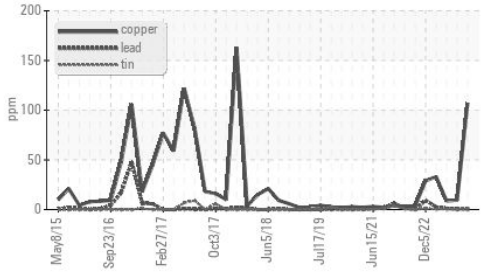
There is no indication of any contamination in the oil.

FLUID CONDITION

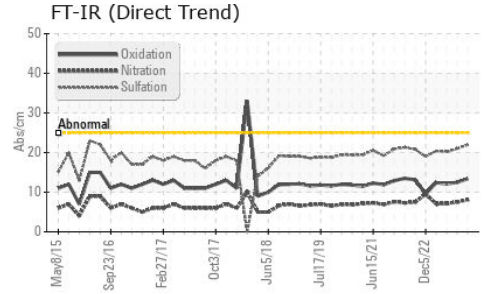
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06177906	TR06074155	TR05927930
Sample Date		Client Info		26 Apr 2024	17 Jan 2024	08 Aug 2023
Machine Age	hrs	Client Info		1066	798	20559
Oil Age	hrs	Client Info		802	534	294
Filter Age	hrs	Client Info		802	534	294
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>250	27	24	24
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>35	5	4	2
Lead	ppm	ASTM D5185m	>100	<1	<1	1
Copper	ppm	ASTM D5185m	>60	▲ 107	10	9
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	8	8	9
Potassium	ppm	ASTM D5185m	>20	2	4	4
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	0.9	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.5	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.0	20.2
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
Sodium	ppm	ASTM D5185m		3	0	4
Boron	ppm	ASTM D5185m		199	219	224
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		206	216	198
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		419	403	415
Calcium	ppm	ASTM D5185m	4500	3778	3686	3530
Phosphorus	ppm	ASTM D5185m		888	786	800
Zinc	ppm	ASTM D5185m	1400	1018	1031	1010
Sulfur	ppm	ASTM D5185m		4232	3805	4165
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	12.5	12.1
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.09	13.23	14.75
Visc @ 100°C	cSt	ASTM D445	15.5	16.2	16.1	16.0

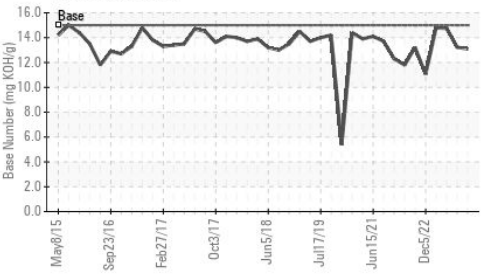
Non-ferrous Metals



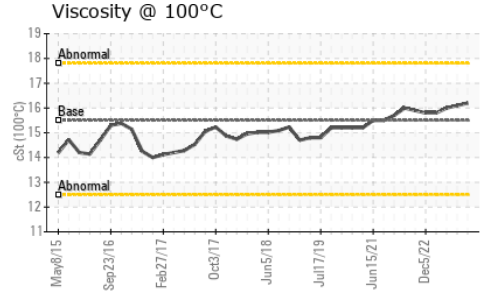
FT-IR (Direct Trend)



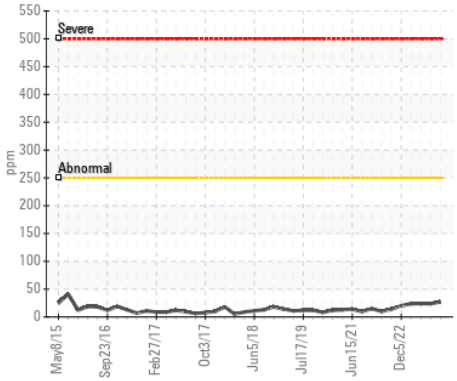
Base Number



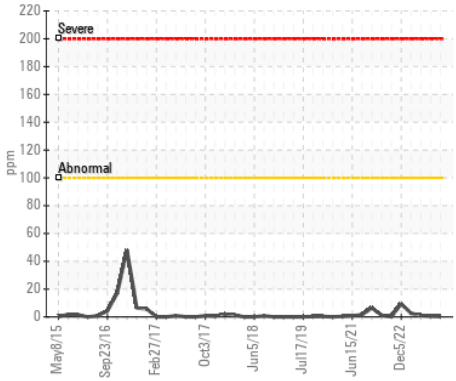
Viscosity @ 100°C



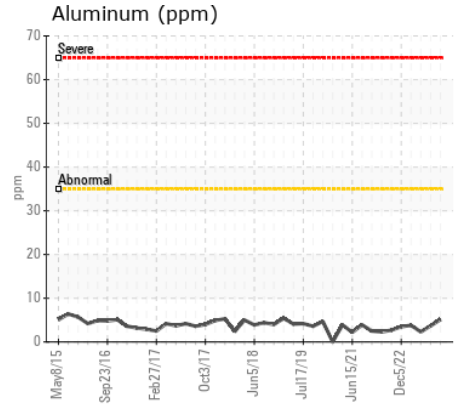
Iron (ppm)



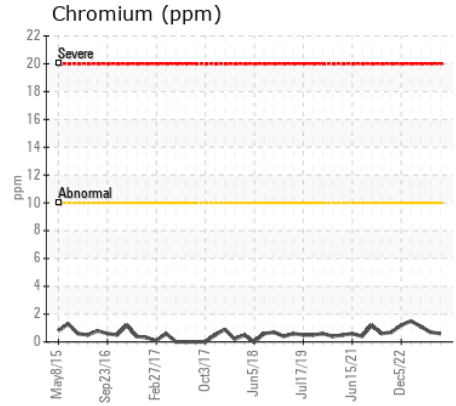
Lead (ppm)



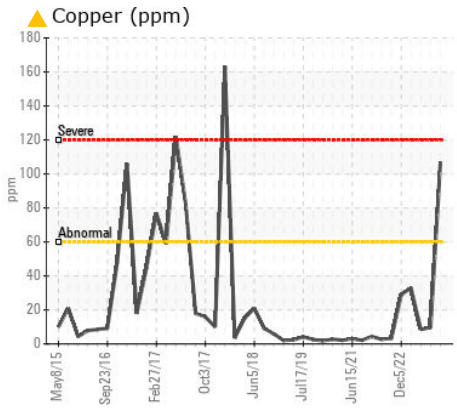
Aluminum (ppm)



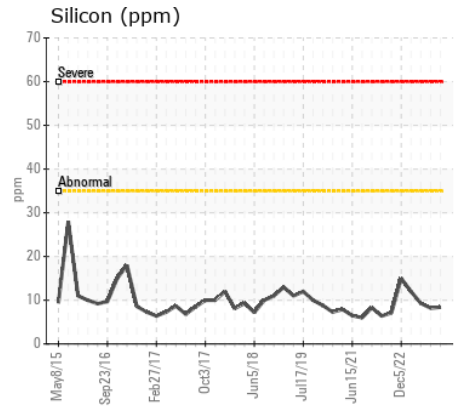
Chromium (ppm)



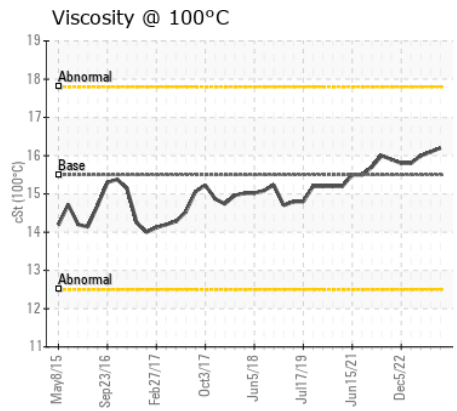
Copper (ppm)



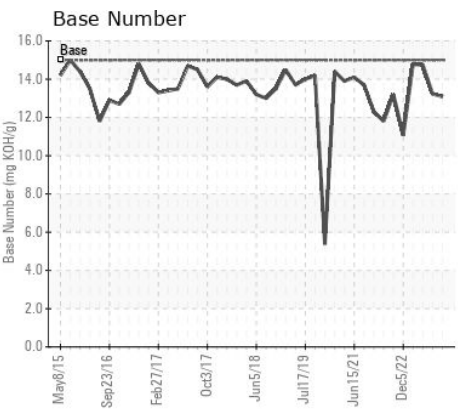
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06177906
Lab Number : 06177906
Unique Number : 11029232
Test Package : MOB 2

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 15 May 2024 - Sean Felton

ABENAKI TIMBER CORP
PO BOX 699
KINGSTON, NH
US 03848
Contact: DON PERCY

To discuss this sample report, contact Customer Service at 1-800-827-0711.
** - 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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