TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
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

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

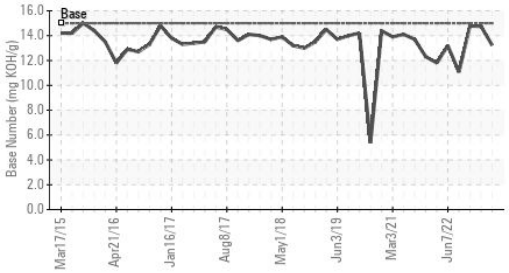
There is no indication of any contamination in the oil.

FLUID CONDITION

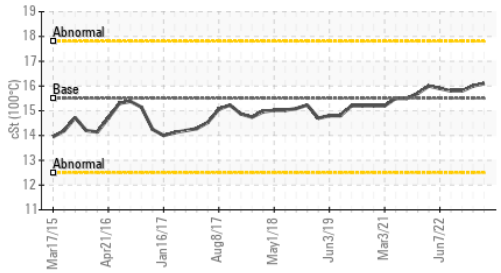
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06074155	TR05927930	TR05822331
Sample Date		Client Info		17 Jan 2024	08 Aug 2023	05 Apr 2023
Machine Age	hrs	Client Info		798	20559	264
Oil Age	hrs	Client Info		534	294	964
Filter Age	hrs	Client Info		534	294	964
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>250	24	24	24
Chromium	ppm	ASTM D5185m	>10	<1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>35	4	2	4
Lead	ppm	ASTM D5185m	>100	<1	1	3
Copper	ppm	ASTM D5185m	>60	10	9	33
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	9	12
Potassium	ppm	ASTM D5185m	>20	4	4	15
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	0.8	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.1	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.2	20.4
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		0	4	30
Boron	ppm	ASTM D5185m		219	224	194
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		216	198	215
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		403	415	477
Calcium	ppm	ASTM D5185m	4500	3686	3530	4070
Phosphorus	ppm	ASTM D5185m		786	800	959
Zinc	ppm	ASTM D5185m	1400	1031	1010	1190
Sulfur	ppm	ASTM D5185m		3805	4165	5098
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.1	12.4
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.23	14.75	14.78
Visc @ 100°C	cSt	ASTM D445	15.5	16.1	16.0	15.8

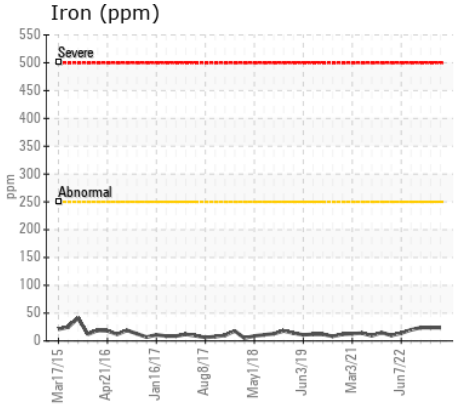
Base Number



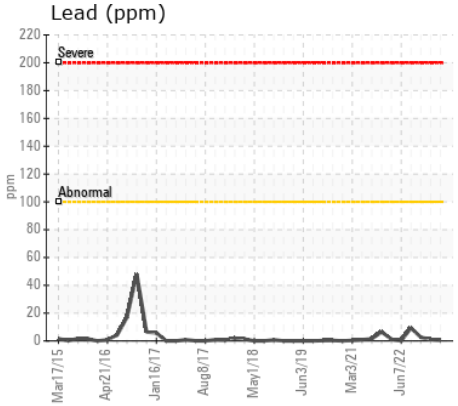
Viscosity @ 100°C



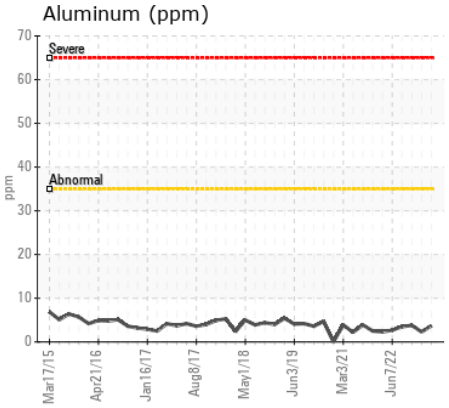
Iron (ppm)



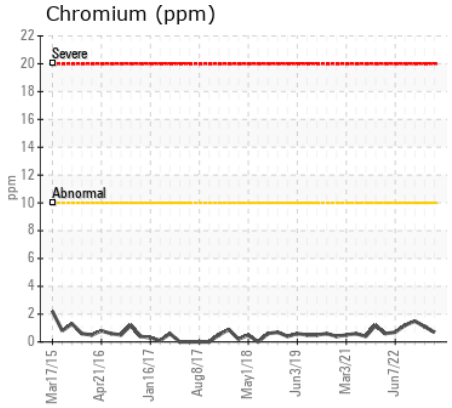
Lead (ppm)



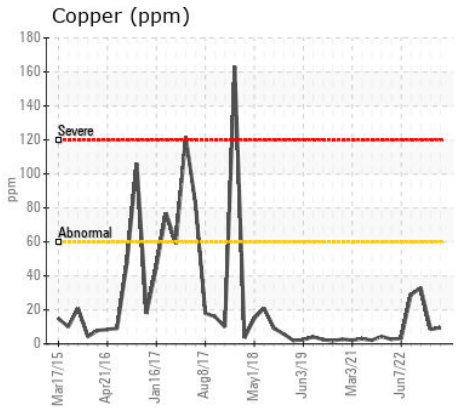
Aluminum (ppm)



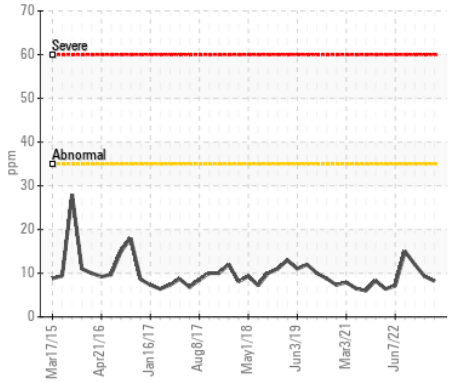
Chromium (ppm)



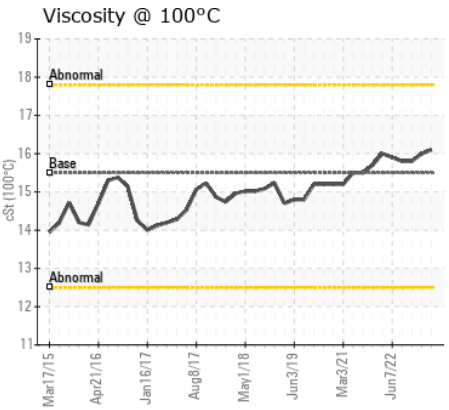
Copper (ppm)



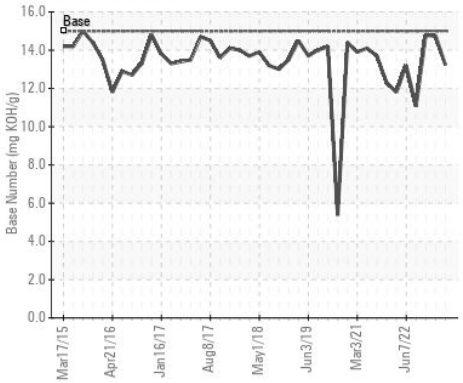
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: TR06074155	**Recieved**	: 30 Jan 2024
Lab Number	: 06074155	**Diagnosed**	: 31 Jan 2024
Unique Number	: 10856246	**Diagnostician**	: Wes Davis
Test Package	: MOB 2		

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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