TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
16
Component
Diesel Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

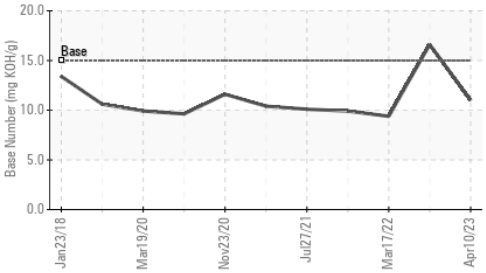
There is no indication of any contamination in the oil.

FLUID CONDITION

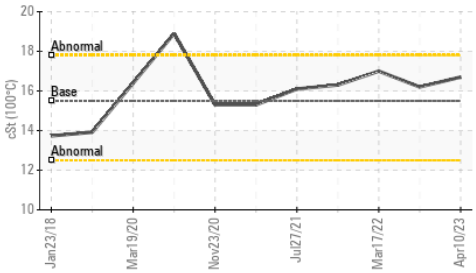
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**TR0000741**	TR0000606	TR0000515
Sample Date		Client Info		**10 Apr 2023**	10 Aug 2022	17 Mar 2022
Machine Age	hrs	Client Info		**9915115**	9915	8930
Oil Age	hrs	Client Info		**1**	8930	1
Filter Age	hrs	Client Info		**1**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	**38**	12	39
Chromium	ppm	ASTM D5185m	>5	**1**	<1	2
Nickel	ppm	ASTM D5185m	>4	**0**	<1	0
Titanium	ppm	ASTM D5185m	>2	**0**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**8**	4	5
Lead	ppm	ASTM D5185m	>150	**5**	4	12
Copper	ppm	ASTM D5185m	>90	**6**	3	10
Tin	ppm	ASTM D5185m	>5	**<1**	2	2
Vanadium	ppm	ASTM D5185m		**0**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	**11**	7	11
Potassium	ppm	ASTM D5185m	>20	**22**	2	3
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	>7.5	**1.2**	0.5	1.5
Nitration	Abs/cm	*ASTM D7624	>20	**15.0**	10.8	18.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**28.7**	21.2	35.2
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		**7**	3	12
Boron	ppm	ASTM D5185m		**0**	3	2
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**120**	116	132
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**26**	16	30
Calcium	ppm	ASTM D5185m	4500	**4732**	4220	4807
Phosphorus	ppm	ASTM D5185m		**935**	872	994
Zinc	ppm	ASTM D5185m	1400	**1166**	1064	1048
Sulfur	ppm	ASTM D5185m		**4764**	4116	3698
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.3**	13.1	27.7
Base Number (BN)	mg KOH/g	ASTM D2896	15	**11.01**	16.6	9.39
Visc @ 100°C	cSt	ASTM D445	15.5	**16.7**	16.2	17.0

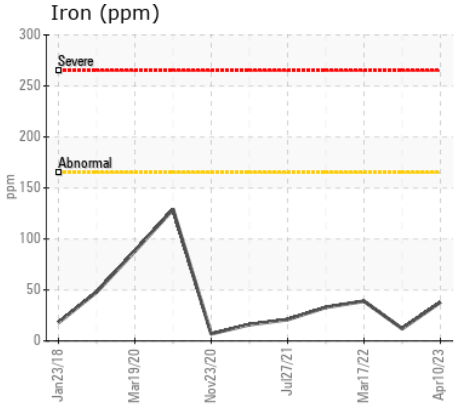
Base Number



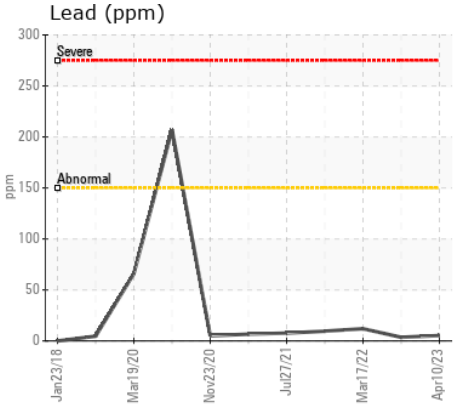
Viscosity @ 100°C



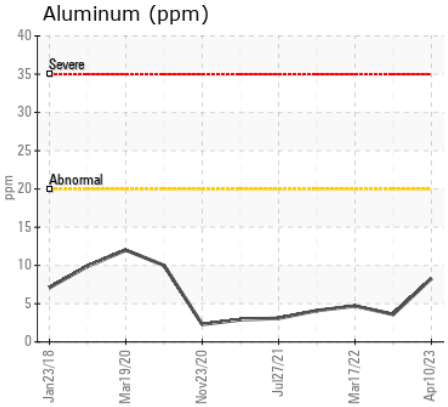
Iron (ppm)



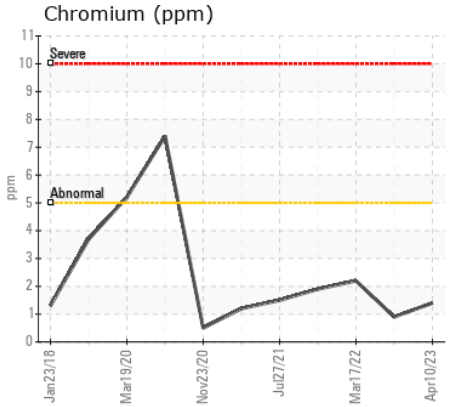
Lead (ppm)



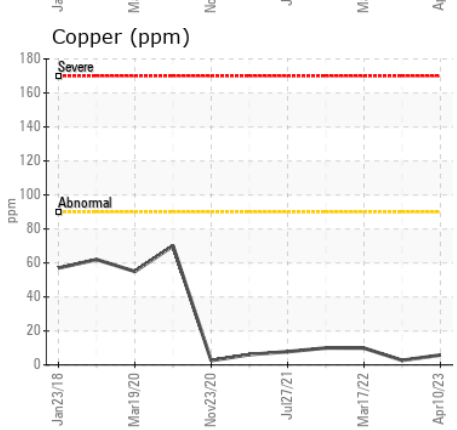
Aluminum (ppm)



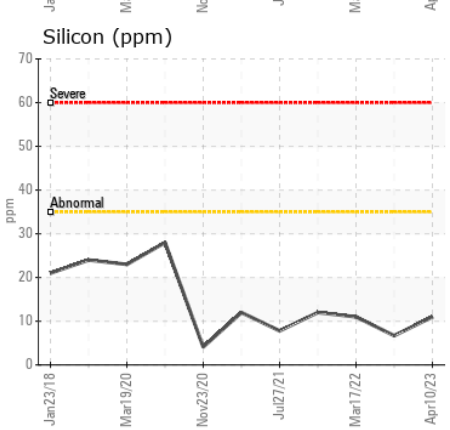
Chromium (ppm)



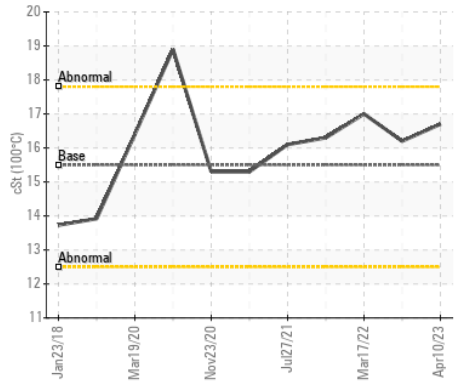
Copper (ppm)



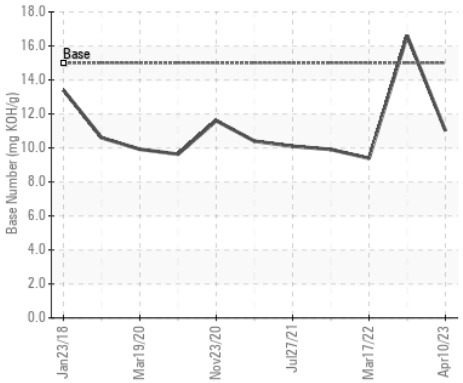
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0000741
Lab Number : 05818332
Unique Number : 10426415
Test Package : MOB 2

Received : 12 Apr 2023
Tested : 14 Apr 2023
Diagnosed : 15 Apr 2023 - Don Baldridge

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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