



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

107

Component

1 Diesel Engine

Fluid

TRC MOLY XL PRO-SPEC SYN BLEND 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001336	TR0001155	TR0000791
Sample Date		Client Info		09 Jan 2024	27 Jul 2023	13 Mar 2023
Machine Age	hrs	Client Info		3532	2662	1992
Oil Age	hrs	Client Info		0	2662	283
Filter Age	hrs	Client Info		0	2662	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	6	61	50
Chromium	ppm	ASTM D5185m	>20	<1	3	3
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	6	7
Lead	ppm	ASTM D5185m	>40	1	4	4
Copper	ppm	ASTM D5185m	>330	0	9	9
Tin	ppm	ASTM D5185m	>15	<1	3	3
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

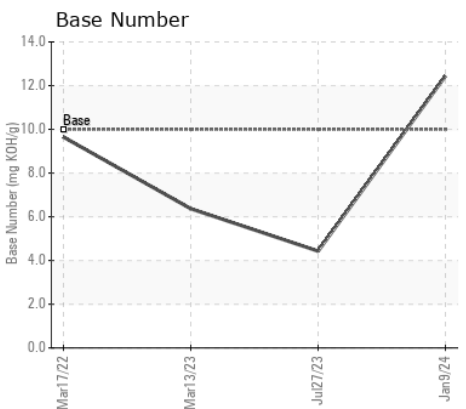
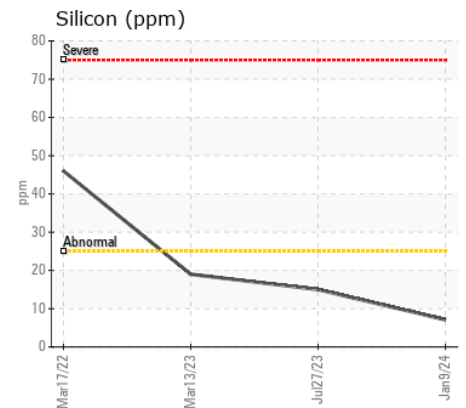
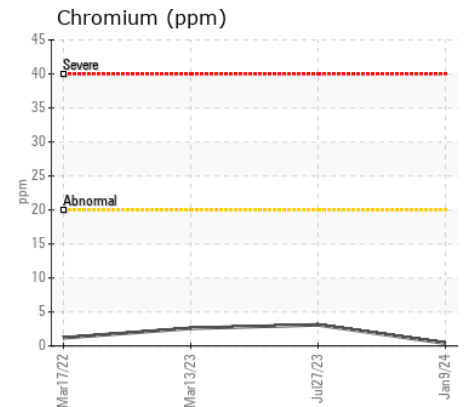
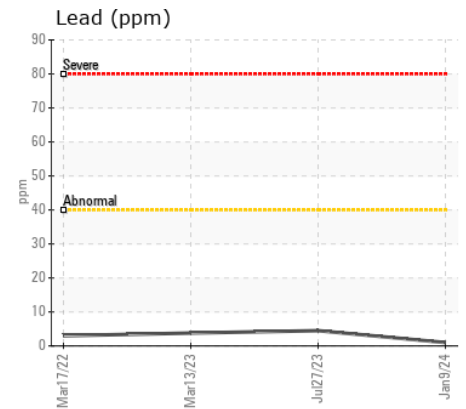
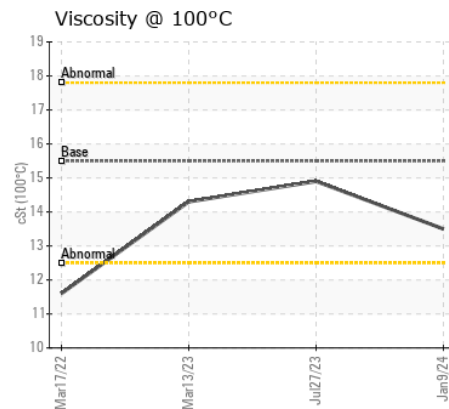
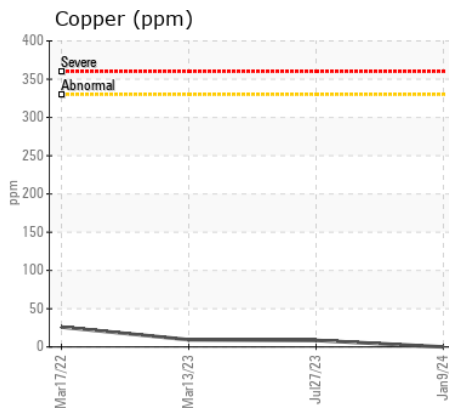
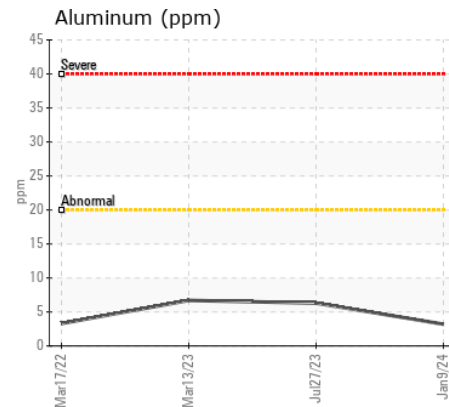
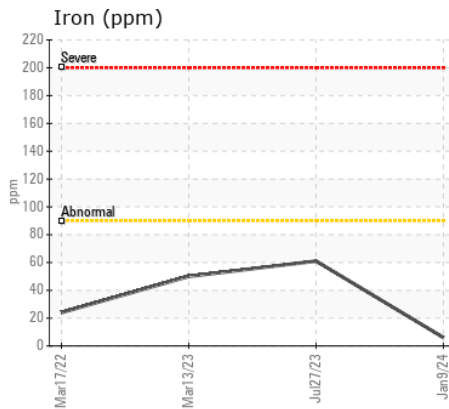
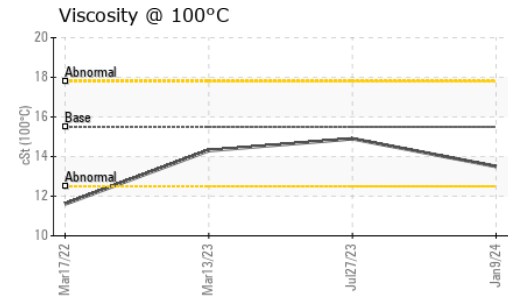
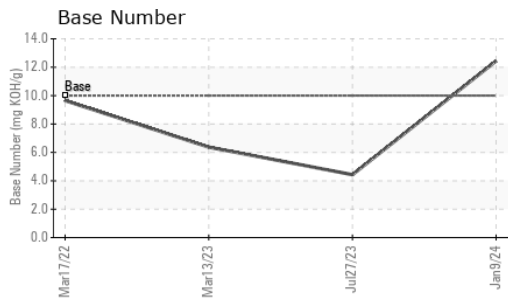
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	15	19
Potassium	ppm	ASTM D5185m	>20	3	26	24
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.1	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.4	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	25.9	24.3
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		<1	4	3
Boron	ppm	ASTM D5185m		2	2	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		109	1	1
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		18	75	81
Calcium	ppm	ASTM D5185m	2300	4135	2323	2818
Phosphorus	ppm	ASTM D5185m		1000	853	986
Zinc	ppm	ASTM D5185m	1200	1143	1104	1313
Sulfur	ppm	ASTM D5185m		4693	3733	4153
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7	20.8	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	10	12.44	4.43	6.37
Visc @ 100°C	cSt	ASTM D445	15.5	13.5	14.9	14.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001336 **Received** : 12 Jan 2024
Lab Number : 06060435 **Diagnosed** : 16 Jan 2024
Unique Number : 10831817 **Diagnostician** : Wes Davis
Test Package : MOB 2

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Certificate L2367
 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)