



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CHALLENGER MT743 MT743 (S/N AGCC0743PJNND1043)

Component
Diesel Engine

Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06074151	TR05852533	TR05673628
Sample Date		Client Info		10 Jan 2024	20 Apr 2023	14 Oct 2022
Machine Age	hrs	Client Info		2497	1936	1611
Oil Age	hrs	Client Info		561	400	416
Filter Age	hrs	Client Info		561	400	416
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	17	20
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	0	2
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

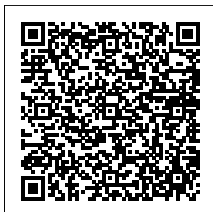
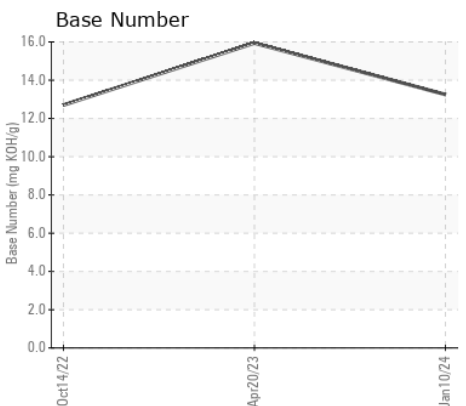
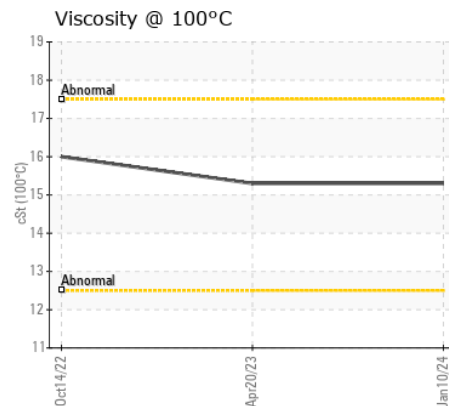
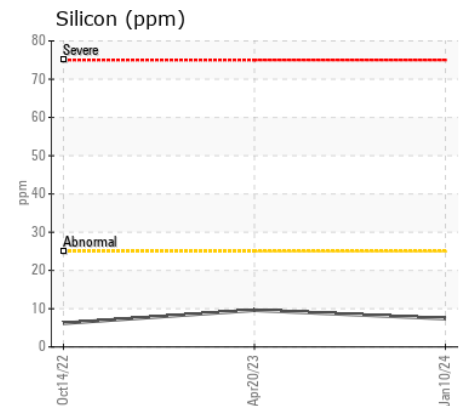
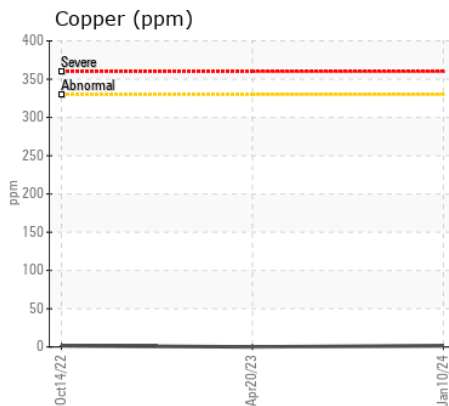
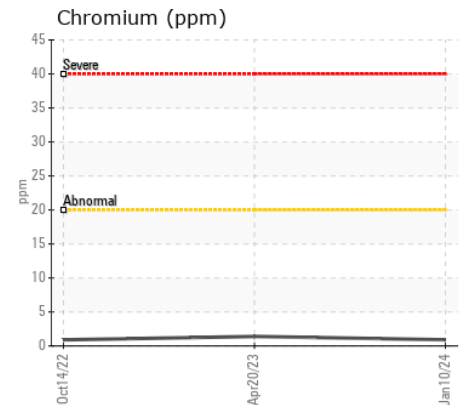
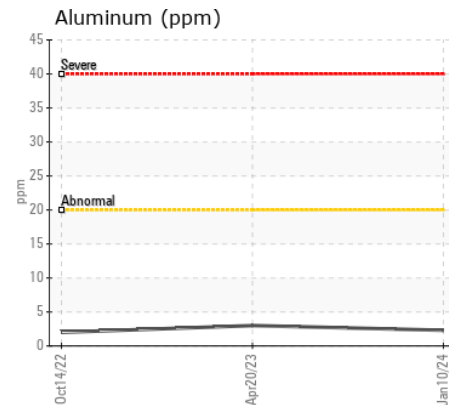
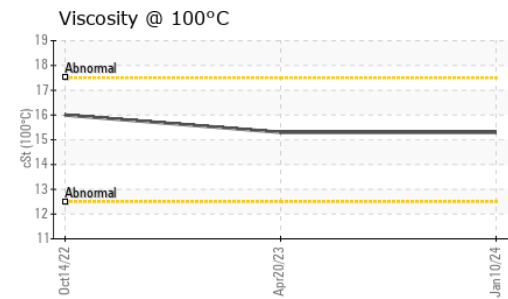
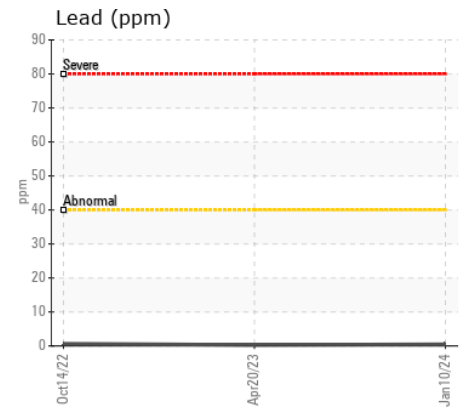
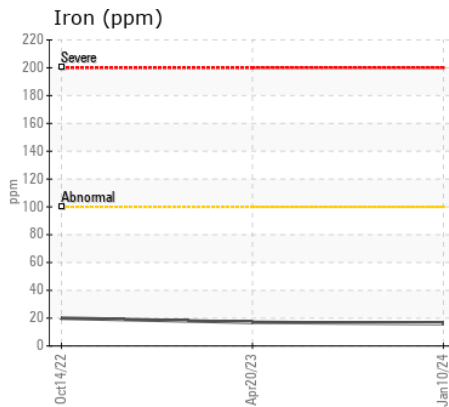
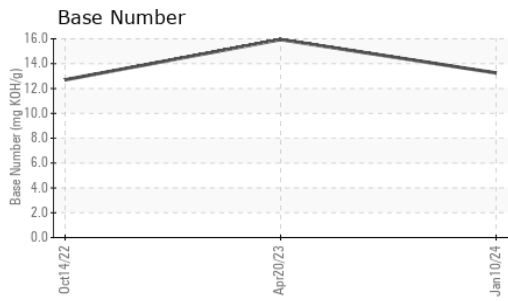
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	10	6
Potassium	ppm	ASTM D5185m	>20	4	2	0
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	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.3	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	19.5	21.9
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		0	2	0
Boron	ppm	ASTM D5185m		0	3	6
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		151	134	127
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		19	27	26
Calcium	ppm	ASTM D5185m		4490	4833	4538
Phosphorus	ppm	ASTM D5185m		893	990	918
Zinc	ppm	ASTM D5185m		1093	1185	1114
Sulfur	ppm	ASTM D5185m		4693	5557	4985
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.2	9.8	11.0
Base Number (BN)	mg KOH/g	ASTM D2896		13.25	15.94	12.7
Visc @ 100°C	cSt	ASTM D445		15.3	15.3	16.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06074151 **Received** : 30 Jan 2024
Lab Number : 06074151 **Diagnosed** : 31 Jan 2024
Unique Number : 10856242 **Diagnostician** : Wes Davis
Test Package : MOB 2

SLATER BROS FARM LLC
 10001 CANAL RD
 HEBRON, OH
 US 43025
 Contact: LARRY HUMPHREY

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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