



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CASE IH 500 QUAD 2012 CASE 500

Component
Diesel Engine

Fluid
TRC MOLY XL PROSPEC III 15W40 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06065137	TR05902923	---
Sample Date		Client Info		01 Dec 2023	17 Jul 2023	---
Machine Age	hrs	Client Info		3940	3710	---
Oil Age	hrs	Client Info		455	225	---
Filter Age	hrs	Client Info		455	225	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	12	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	3	---
Lead	ppm	ASTM D5185m	>40	10	3	---
Copper	ppm	ASTM D5185m	>330	4	2	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

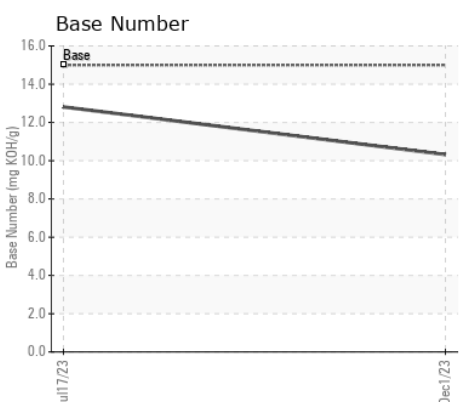
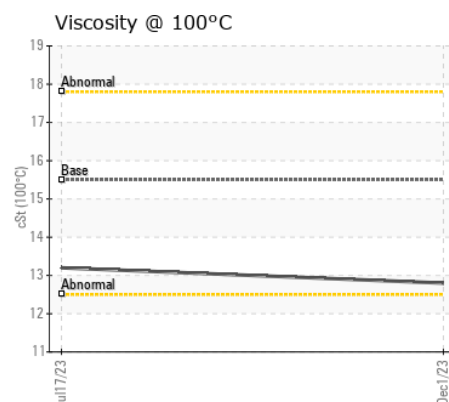
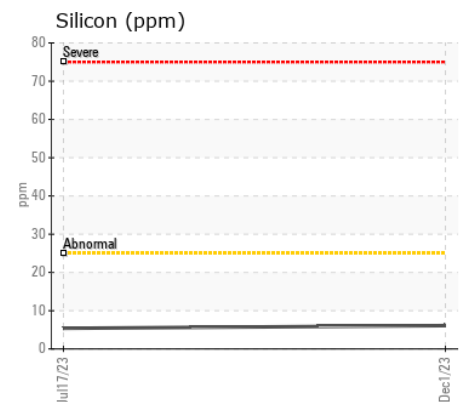
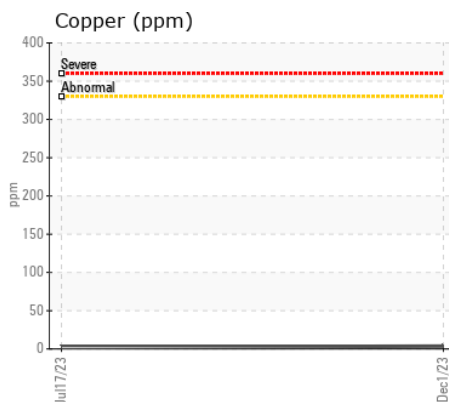
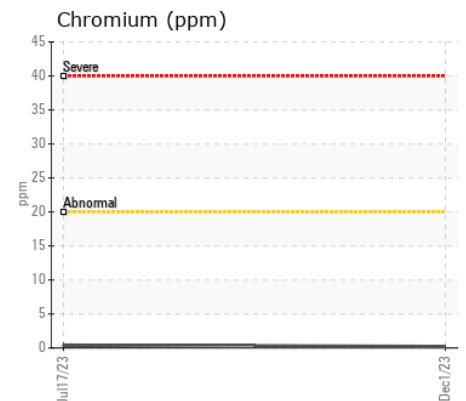
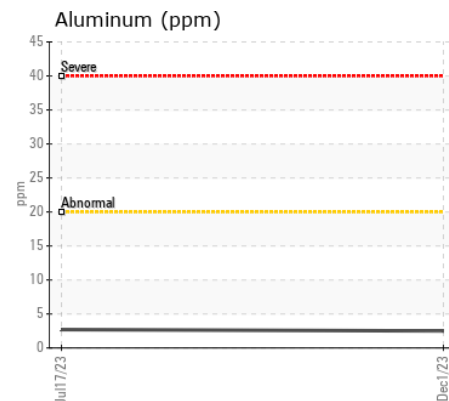
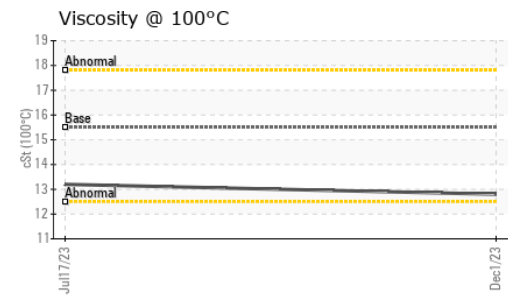
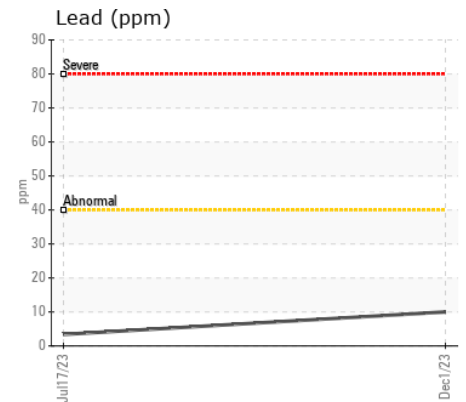
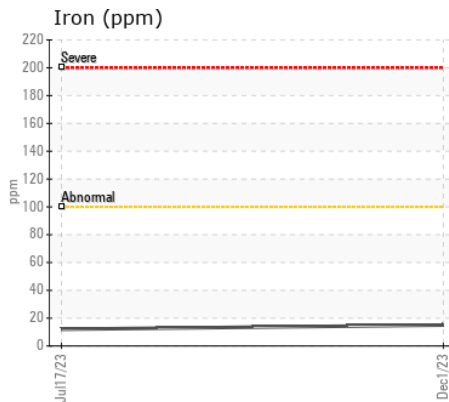
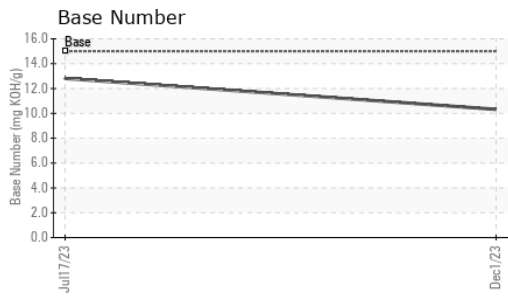
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	20.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	6	---
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		117	116	---
Manganese	ppm	ASTM D5185m		2	4	---
Magnesium	ppm	ASTM D5185m		111	155	---
Calcium	ppm	ASTM D5185m	4500	3522	4070	---
Phosphorus	ppm	ASTM D5185m		812	944	---
Zinc	ppm	ASTM D5185m	1400	1008	1117	---
Sulfur	ppm	ASTM D5185m		3750	4982	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	10.32	12.81	---
Visc @ 100°C	cSt	ASTM D445	15.5	12.8	13.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06065137 **Received** : 18 Jan 2024
Lab Number : 06065137 **Diagnosed** : 22 Jan 2024
Unique Number : 10836519 **Diagnostician** : Sean Felton
Test Package : MOB 2

SELLARS FARMS INC
 9451 DRY CREEK RD
 COLFAX, WA
 US 99111
 Contact: RON GROGAN

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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F: