TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 5188
Component
Gasoline Engine
Fluid
TRC PRO-SPEC SYNTHETIC 5W30 (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

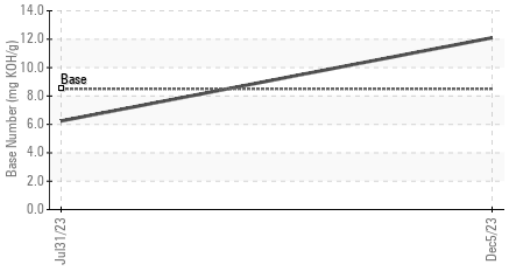
There is no indication of any contamination in the oil.

FLUID CONDITION

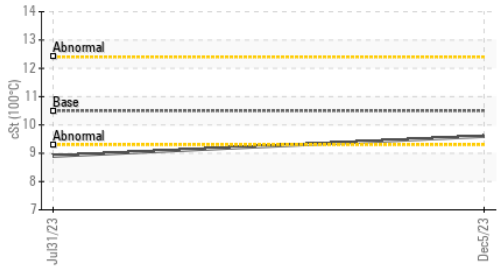
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06062978	TR05971711	---
Sample Date		Client Info		05 Dec 2023	31 Jul 2023	---
Machine Age	mls	Client Info		10020	5000	---
Oil Age	mls	Client Info		5010	5000	---
Filter Age	mls	Client Info		5010	5000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>150	17	39	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>40	4	10	---
Lead	ppm	ASTM D5185m	>50	0	<1	---
Copper	ppm	ASTM D5185m	>155	15	60	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>30	14	35	---
Potassium	ppm	ASTM D5185m	>20	4	20	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	19.8	---
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	---
Sodium	ppm	ASTM D5185m	>400	4	17	---
Boron	ppm	ASTM D5185m		6	71	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m	400	16	139	---
Manganese	ppm	ASTM D5185m		3	20	---
Magnesium	ppm	ASTM D5185m	600	46	367	---
Calcium	ppm	ASTM D5185m	1500	4303	1332	---
Phosphorus	ppm	ASTM D5185m	800	894	657	---
Zinc	ppm	ASTM D5185m	900	1195	786	---
Sulfur	ppm	ASTM D5185m		3816	2863	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	13.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	12.10	6.24	---
Visc @ 100°C	cSt	ASTM D445	10.5	9.6	8.9	---

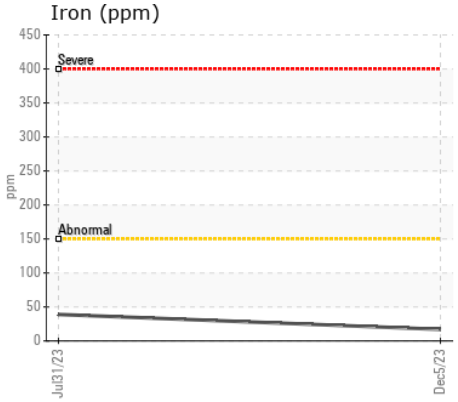
Base Number



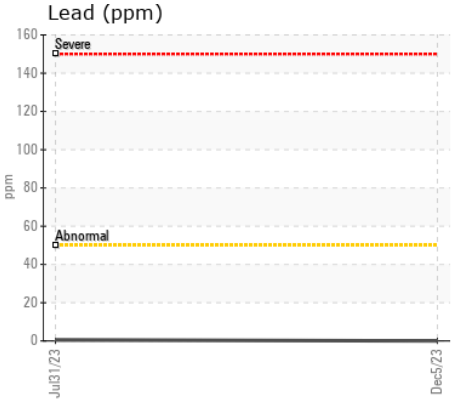
Viscosity @ 100°C



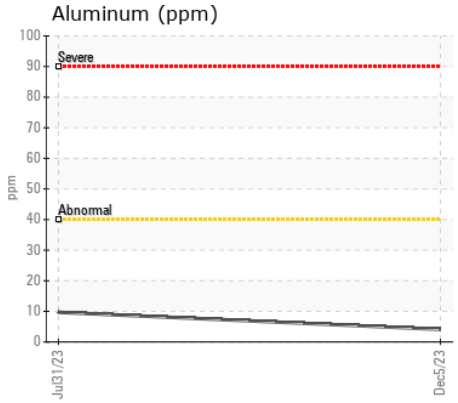
Iron (ppm)



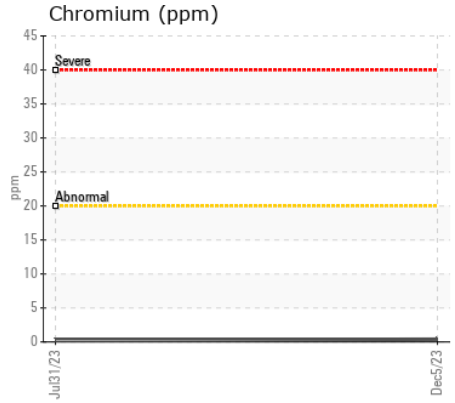
Lead (ppm)



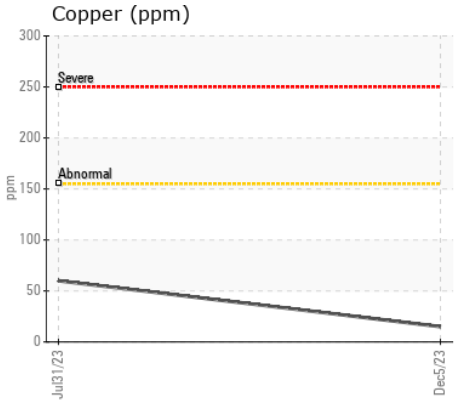
Aluminum (ppm)



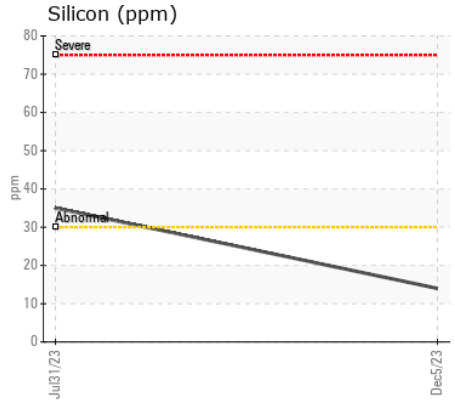
Chromium (ppm)



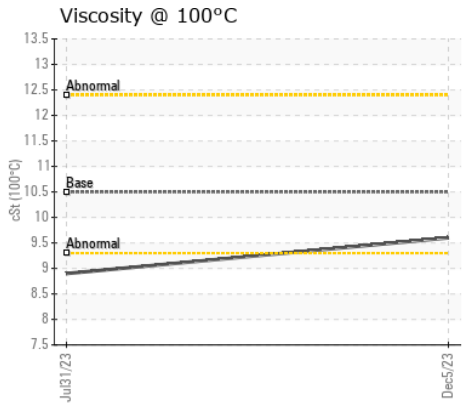
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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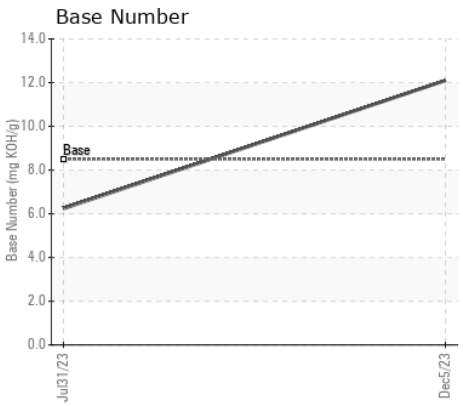

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06062978
Lab Number : 06062978
Unique Number : 10834360
Test Package : MOB 2

Recieved : 17 Jan 2024
Diagnosed : 18 Jan 2024
Diagnostician : Sean Felton

RANDALL COUNTY ROAD DEPT.
301 WEST HIGHWAY 60
CANYON, TX
US 79015
Contact: MIKE LEWIS

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)

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F: