TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
ROTOCHOPPER B66 ROTOCHOPPER-G02 17-2981
Component
Diesel Engine
Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (14 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

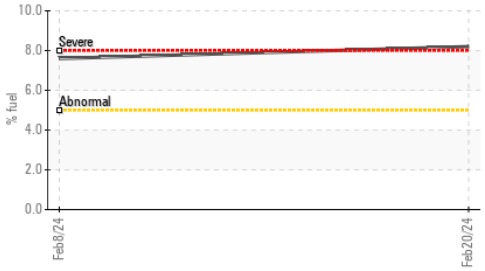
There is a high amount of fuel present in the oil.

FLUID CONDITION

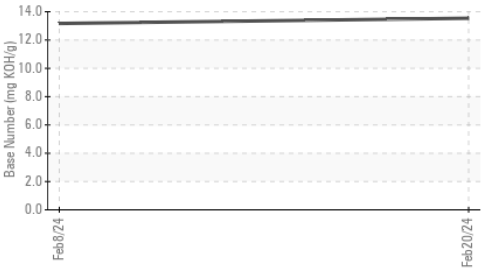
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06101171	TR06090427	---
Sample Date		Client Info		20 Feb 2024	08 Feb 2024	---
Machine Age	hrs	Client Info		7735	7701	---
Oil Age	hrs	Client Info		271	237	---
Filter Age	hrs	Client Info		271	237	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>100	23	26	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>2	0	1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	3	3	---
Lead	ppm	ASTM D5185m	>40	4	4	---
Copper	ppm	ASTM D5185m	>330	2	4	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	4	6	---
Potassium	ppm	ASTM D5185m	>20	0	3	---
Fuel	%	ASTM D3524	>5	▲ 8.2	▲ 7.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.7	---
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		0	1	---
Boron	ppm	ASTM D5185m		21	28	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		108	106	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		99	99	---
Calcium	ppm	ASTM D5185m		3240	3184	---
Phosphorus	ppm	ASTM D5185m		738	791	---
Zinc	ppm	ASTM D5185m		928	922	---
Sulfur	ppm	ASTM D5185m		3511	3707	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	11.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		13.54	13.17	---
Visc @ 100°C	cSt	ASTM D445		12.1	▲ 12.3	---

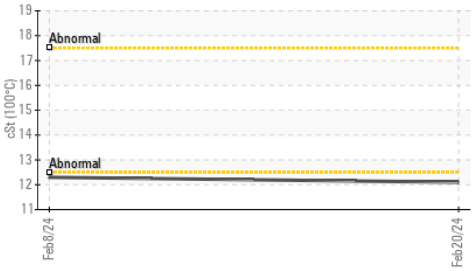
Fuel Dilution



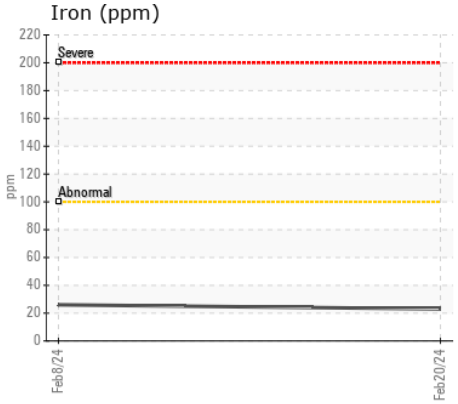
Base Number



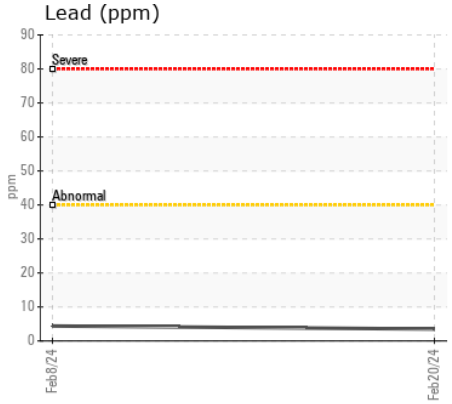
Viscosity @ 100°C



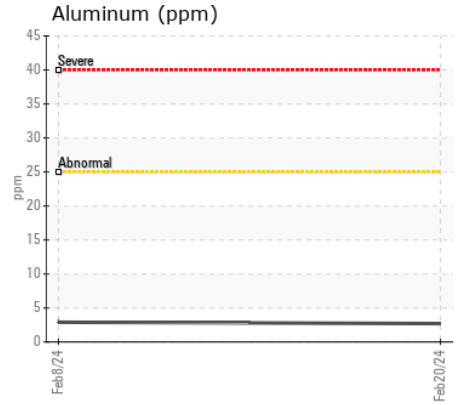
Iron (ppm)



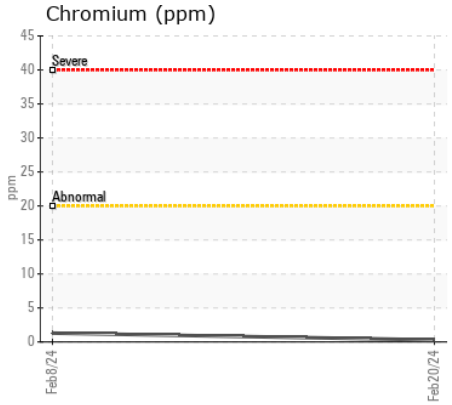
Lead (ppm)



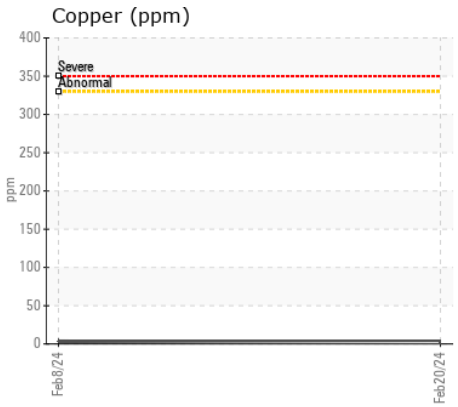
Aluminum (ppm)



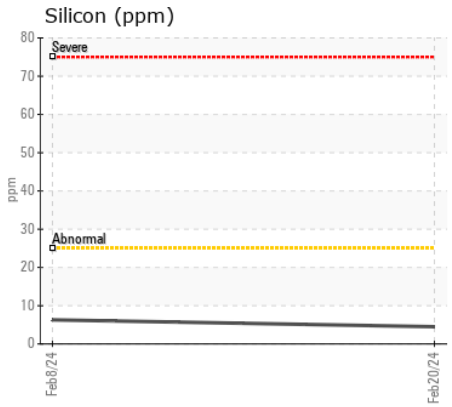
Chromium (ppm)



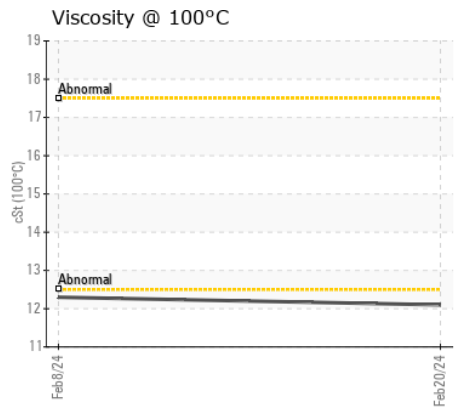
Copper (ppm)



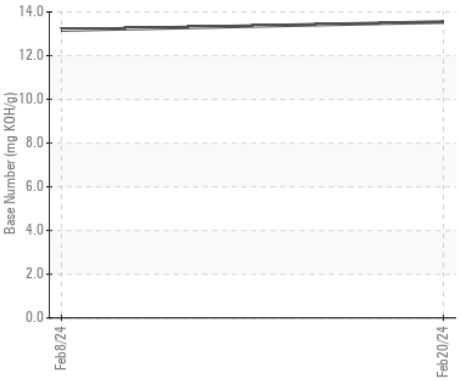
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06101171
Lab Number : 06101171
Unique Number : 10899401
Test Package : MOB 2 (Additional Tests: PercentFuel)

Received : 26 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Doug Bogart

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)

BARR-TECH COMPOSTING
9117 KALLENBERGER RD N
SPRAGUE, WA
US 99032
Contact: RON GROGAN

T: (509)590-0437
F: