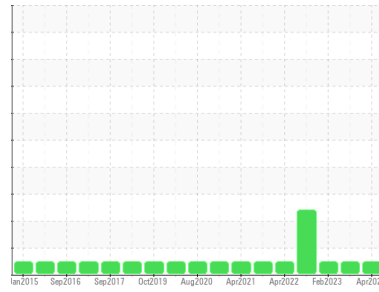




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**INTERNATIONAL TH279692**  
 Component  
**Front Diesel Engine**  
 Fluid  
**TRC MOLY XL PRO-SPEC IV 15W40 (10 GAL)**

## DIAGNOSIS

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TR06157133</b>	TR05967196	TR05783278
Sample Date	Client Info		<b>16 Apr 2024</b>	17 Sep 2023	19 Feb 2023
Machine Age	mls	Client Info	<b>598728</b>	583648	579969
Oil Age	mls	Client Info	<b>15180</b>	10652	6973
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >65	<b>23</b>	19	23
Chromium	ppm	ASTM D5185m >10	<b>3</b>	4	4
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	0	4
Lead	ppm	ASTM D5185m >30	<b>3</b>	2	<1
Copper	ppm	ASTM D5185m >30	<b>2</b>	6	3
Tin	ppm	ASTM D5185m >4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>7</b>	<1	2
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>121</b>	113	114
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>29</b>	25	19
Calcium	ppm	ASTM D5185m 1300	<b>4300</b>	4069	4385
Phosphorus	ppm	ASTM D5185m	<b>883</b>	833	860
Zinc	ppm	ASTM D5185m 1300	<b>1011</b>	1019	1042
Sulfur	ppm	ASTM D5185m	<b>4603</b>	3992	4164

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>7</b>	8	9
Sodium	ppm	ASTM D5185m	<b>4</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	4

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>0.7</b>	0.4	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.8</b>	10.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.1</b>	19.9	18.8

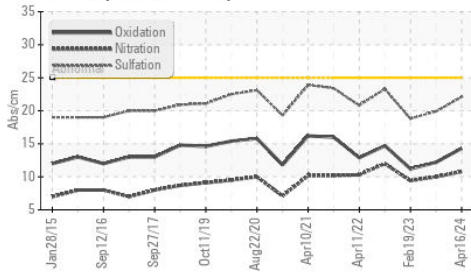
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.3</b>	12.2	11.2
Base Number (BN)	mg KOH/g	ASTM D2896 14	<b>12.16</b>	13.52	14.42

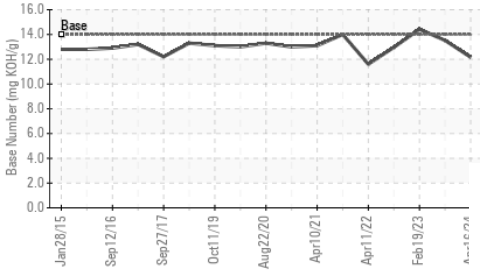


# OIL ANALYSIS REPORT

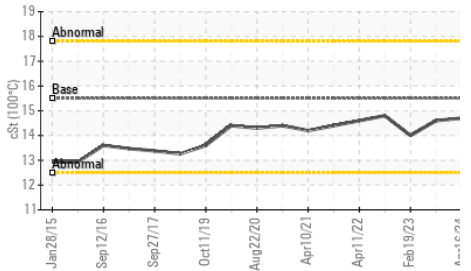
FT-IR (Direct Trend)



Base Number



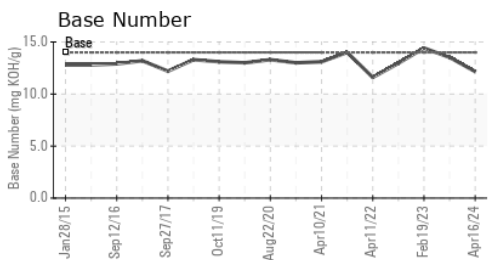
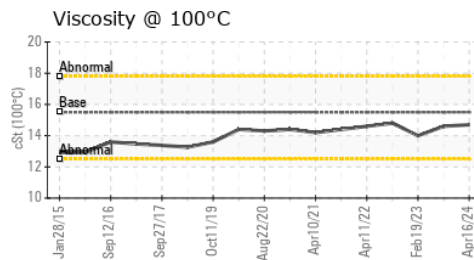
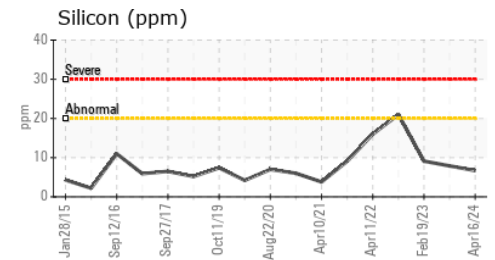
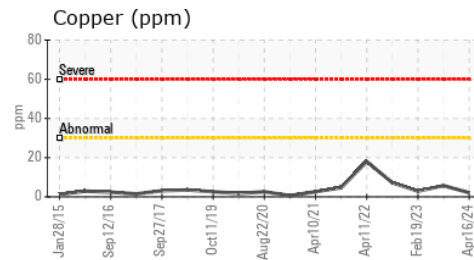
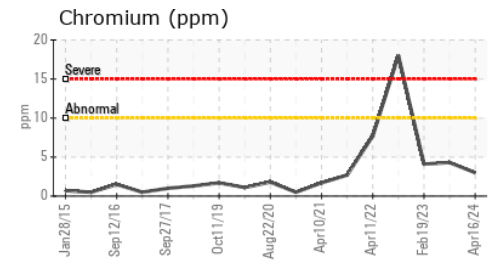
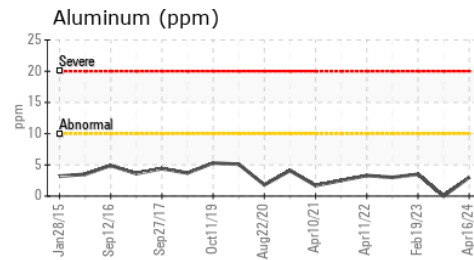
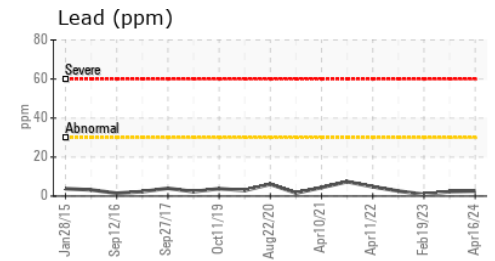
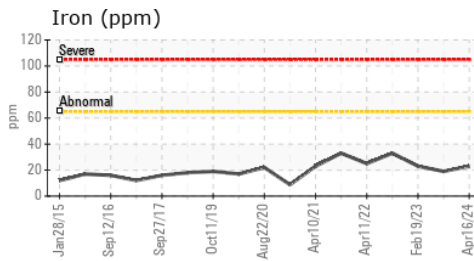
Viscosity @ 100°C



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	14.7	14.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06157133  
**Lab Number** : 06157133  
**Unique Number** : 10992556  
**Test Package** : MOB 2

**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Wes Davis

**BEGGER ENTERPRISES LLC**  
 5126 VALLEY DRIVE EAST  
 MILES CITY, MT  
 US 59301  
 Contact: KELLY ZIETLOW

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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