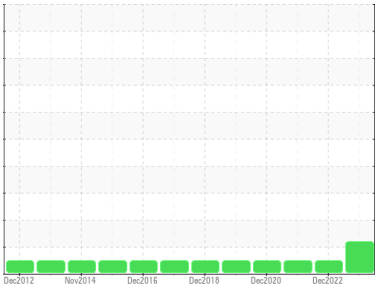
OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Machine Id
STEIGER 2
Component
Rear Differential
Fluid
NOLEA MEGG PREMIUM 85W40 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
High concentration of visible metal present. All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0617398**	WC0617461	WC0617404
Sample Date		Client Info		**14 Aug 2023**	05 Dec 2022	14 Dec 2021
Machine Age	hrs	Client Info		**1966**	11223	10292
Oil Age	hrs	Client Info		**742**	931	886
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**MARGINAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1250	**132**	249	296
Chromium	ppm	ASTM D5185m	>10	**<1**	2	2
Nickel	ppm	ASTM D5185m	>10	**<1**	1	<1
Titanium	ppm	ASTM D5185m	>5	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>35	**2**	4	2
Lead	ppm	ASTM D5185m	>50	**0**	<1	<1
Copper	ppm	ASTM D5185m	>250	**<1**	<1	1
Tin	ppm	ASTM D5185m	>20	**0**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**106**	241	34
Barium	ppm	ASTM D5185m		**0**	0	1
Molybdenum	ppm	ASTM D5185m		**228**	190	548
Manganese	ppm	ASTM D5185m		**<1**	3	4
Magnesium	ppm	ASTM D5185m		**1**	1	<1
Calcium	ppm	ASTM D5185m		**7**	5	14
Phosphorus	ppm	ASTM D5185m		**906**	1026	804
Zinc	ppm	ASTM D5185m		**7**	10	0
Sulfur	ppm	ASTM D5185m		**22605**	26429	13113

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	**17**	26	45
Sodium	ppm	ASTM D5185m		**0**	2	1
Potassium	ppm	ASTM D5185m	>20	**<1**	2	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.88**	1.69	1.370

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**HEAVY**	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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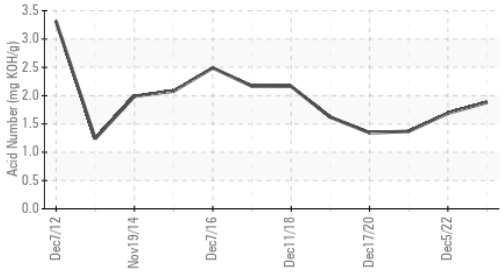
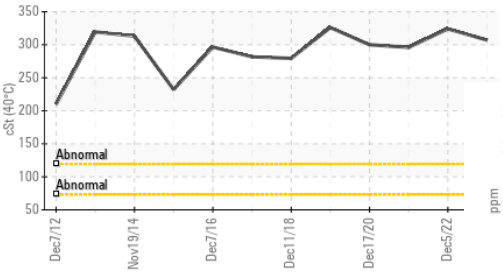
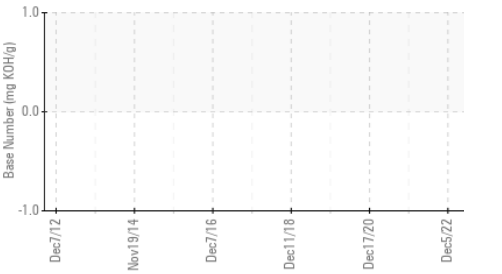
Acid Number



Viscosity @ 40°C



Base Number

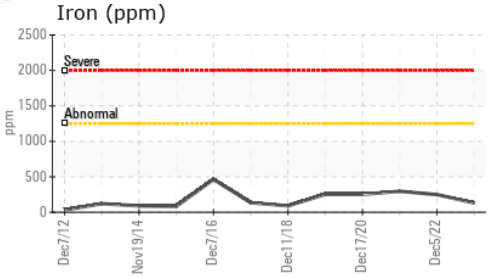


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**307**	324	296

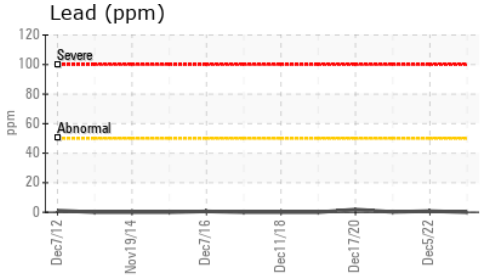
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

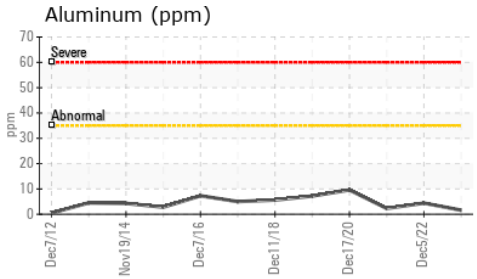
Iron (ppm)



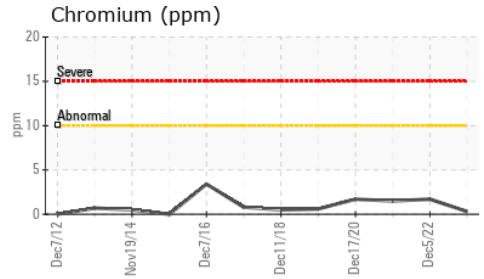
Lead (ppm)



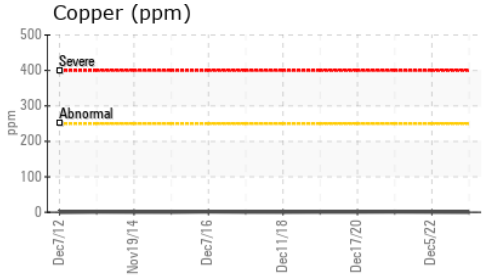
Aluminum (ppm)



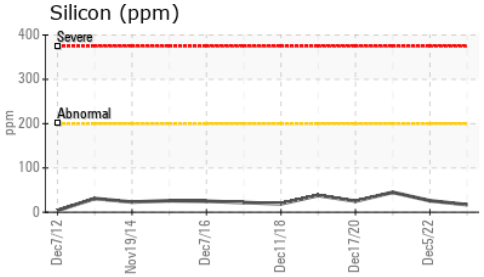
Chromium (ppm)



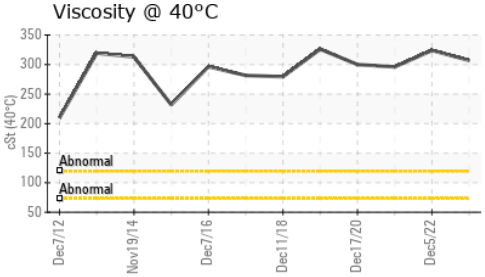
Copper (ppm)



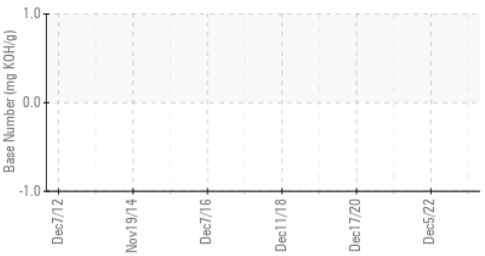
Silicon (ppm)



Viscosity @ 40°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0617398 **Received** : 18 Aug 2023
Lab Number : 05928858 **Diagnosed** : 21 Aug 2023
Unique Number : 10608805 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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)

PRECISION LAND GRADING
1031 PARKER RD
SANDHEIMER, LA
US 71276
Contact: RANDY TEMPLE
ktemple19@gmail.com
T: (318)372-8431
F: (318)552-8876