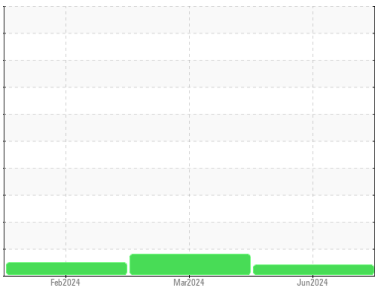
OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Area
LONGVIEW
Machine Id
GEFCO 868-2
Component
Right Transmission
Fluid
TULCO LUBSOIL TO-4 30 (40 GAL)

DIAGNOSIS

Recommendation
We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the fluid.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO10003556**	TO50002075	TO50002074
Sample Date		Client Info		**07 Jun 2024**	13 Mar 2024	17 Feb 2024
Machine Age	hrs	Client Info		**15082**	14217	13736
Oil Age	hrs	Client Info		**865**	1262	781
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	MARGINAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

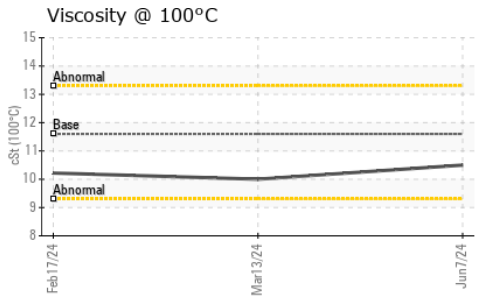
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>130	**11**	13	12
Iron	ppm	ASTM D5185m	>250	**3**	2	3
Chromium	ppm	ASTM D5185m	>2	**0**	0	0
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**0**	0	0
Silver	ppm	ASTM D5185m		**22**	▲ 30	26
Aluminum	ppm	ASTM D5185m	>55	**1**	<1	1
Lead	ppm	ASTM D5185m	>65	**4**	5	5
Copper	ppm	ASTM D5185m	>230	**14**	18	19
Tin	ppm	ASTM D5185m	>6	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

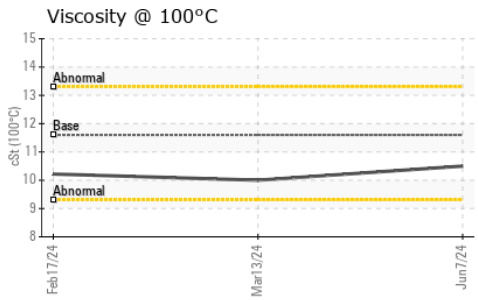
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	2	4
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**168**	217	213
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	9	**10**	8	0
Calcium	ppm	ASTM D5185m	4500	**3146**	2651	2685
Phosphorus	ppm	ASTM D5185m	1150	**964**	912	868
Zinc	ppm	ASTM D5185m	1250	**1182**	1066	1073
Sulfur	ppm	ASTM D5185m	4500	**6882**	6921	5953

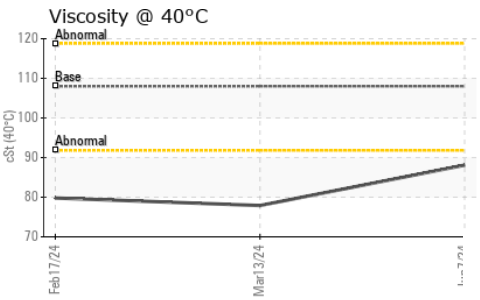
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**8**	8	8
Sodium	ppm	ASTM D5185m		**5**	4	3
Potassium	ppm	ASTM D5185m	>20	**<1**	0	0

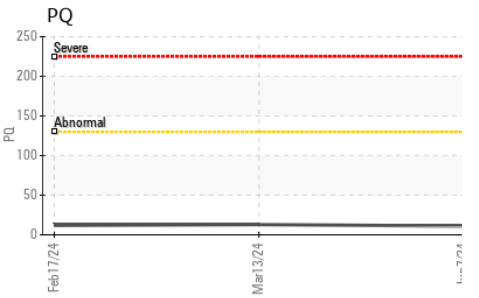
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	**1.341**	1.777	1.83

OIL ANALYSIS REPORT



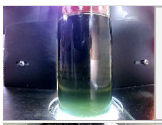




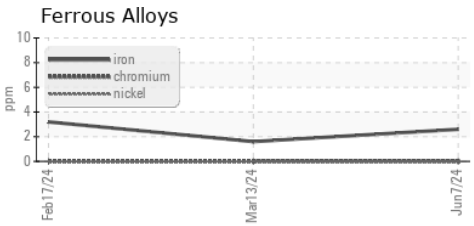


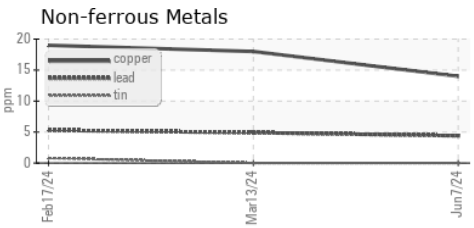
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

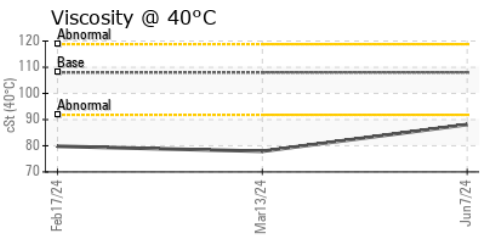
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108	**88.1**	77.9	79.8
Visc @ 100°C	cSt	ASTM D445	11.6	**10.5**	10.0	10.22
Viscosity Index (VI)	Scale	ASTM D2270	94	**101**	108	109

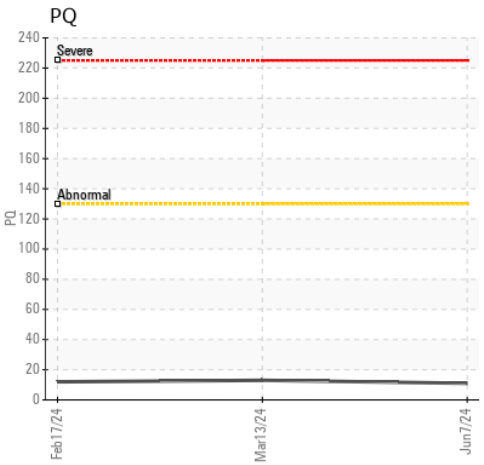
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

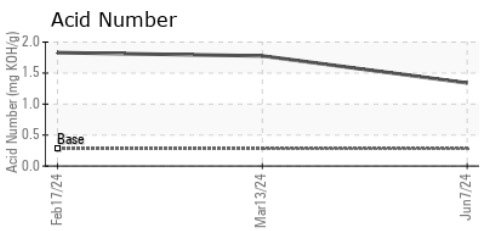
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003556 **Received** : 12 Jun 2024
Lab Number : 06207975 **Tested** : 19 Jun 2024
Unique Number : 11075436 **Diagnosed** : 19 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

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)

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