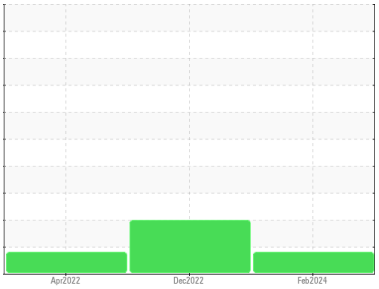
OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT

Area
COMPRESSOR STATIONS/ZENA AREA
Machine Id
ZENA (S/N 5629X2360)
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO60002045**	TO60000035	TO70000014
Sample Date		Client Info		**07 Feb 2024**	12 Dec 2022	04 Apr 2022
Machine Age	hrs	Client Info		**43496**	33727	27739
Oil Age	hrs	Client Info		**33727**	27739	8000
Oil Changed		Client Info		**Not Changd**	Not Changd	Oil Added
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**9**	5	4
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m		**0**	1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	<1
Lead	ppm	ASTM D5185m	>25	**0**	<1	<1
Copper	ppm	ASTM D5185m	>50	**0**	0	<1
Tin	ppm	ASTM D5185m	>15	**0**	2	2
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

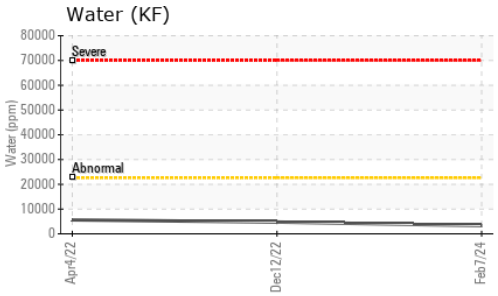
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	1	3
Barium	ppm	ASTM D5185m	0	**8**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	0	**1**	1	<1
Calcium	ppm	ASTM D5185m	0	**2**	<1	<1
Phosphorus	ppm	ASTM D5185m	0	**111**	111	192
Zinc	ppm	ASTM D5185m	0	**2**	2	0
Sulfur	ppm	ASTM D5185m	0	**990**	797	427

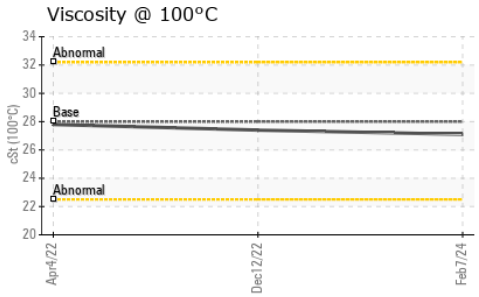
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**8**	28	43
Potassium	ppm	ASTM D5185m	>20	**2**	2	4
Water	%	ASTM D6304	>2.26	**0.331**	0.475	0.563
ppm Water	ppm	ASTM D6304	>22600	**3311**	4750	5639.2

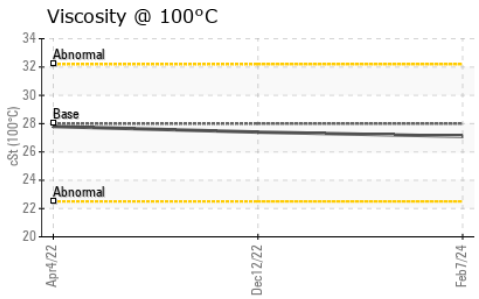
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	▲ 78585	● 17029
Particles >6µm		ASTM D7647	>1300	**---**	▲ 31423	▲ 2942
Particles >14µm		ASTM D7647	>320	**---**	▲ 1816	59
Particles >21µm		ASTM D7647	>80	**---**	▲ 310	5
Particles >38µm		ASTM D7647	>20	**---**	7	0
Particles >71µm		ASTM D7647	>4	**---**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	**---**	▲ 23/22/18	▲ 21/19/13

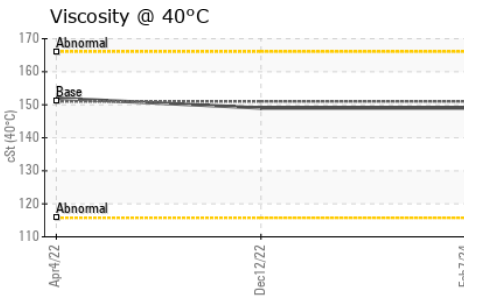
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.49**	0.32	0.31

OIL ANALYSIS REPORT



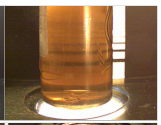
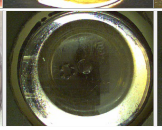
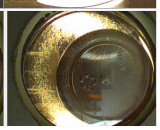




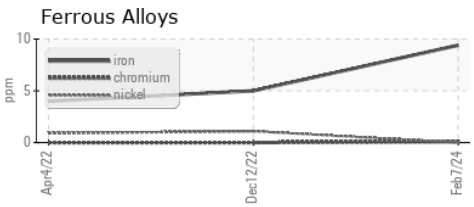


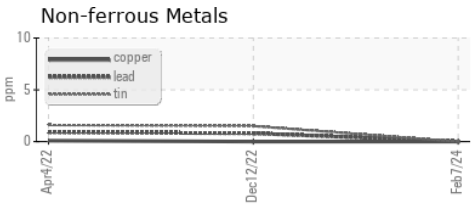
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
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	>2.26	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

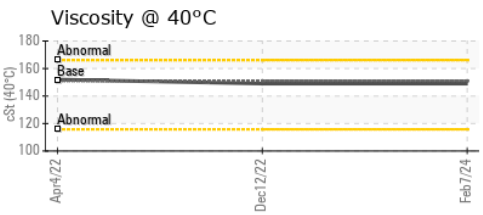
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	**149**	149	152
Visc @ 100°C	cSt	ASTM D445	28	**27.1**	27.4	27.8
Viscosity Index (VI)	Scale	ASTM D2270	224	**220**	222	222

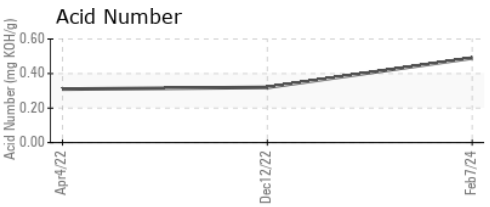
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002045
Lab Number : 06100912
Unique Number : 10899142
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 26 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 28 Feb 2024 - Don Baldridge

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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Report Id: EOGMID [WUSCAR] 06100912 (Generated: 02/28/2024 21:55:57) Rev: 1

Submitted By: ISMAEL SALGADO