



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
MTR [166408]
Machine Id
TINHGEN4BRGGUI (S/N 437445)
Component
Guide Bearing
Fluid
ESSO TERESSO ISO 46 (60 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0862804	WC0862795	WC0678274
Sample Date		Client Info		06 May 2024	03 Oct 2023	28 Feb 2023
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		4	4	3
Filter Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	0	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	<1
Lead	ppm	ASTM D5185(m)	>20	2	4	3
Copper	ppm	ASTM D5185(m)	>20	0	<1	0
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

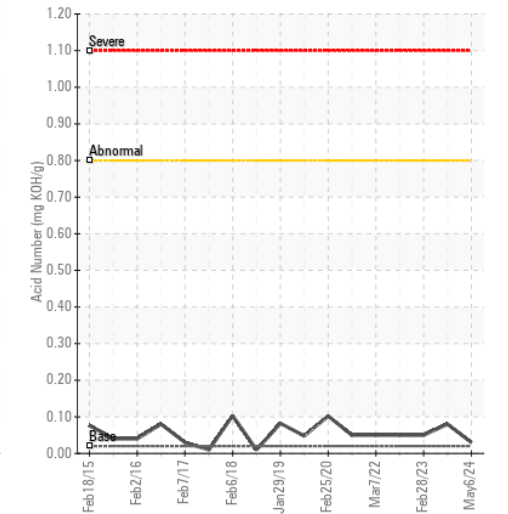
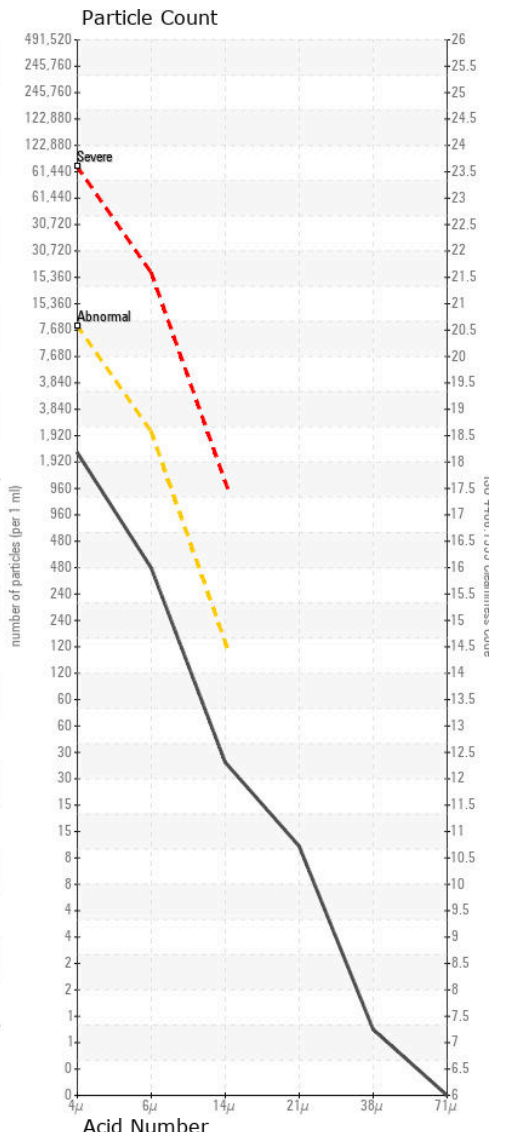
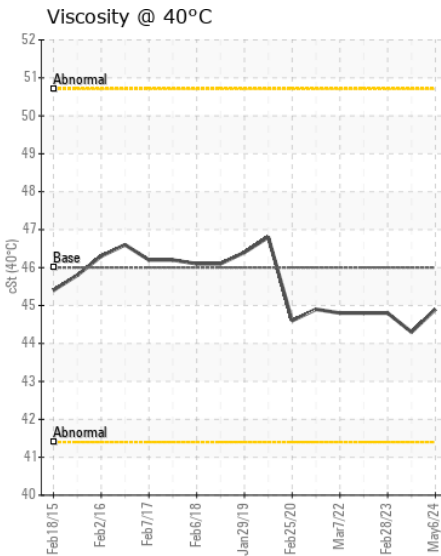
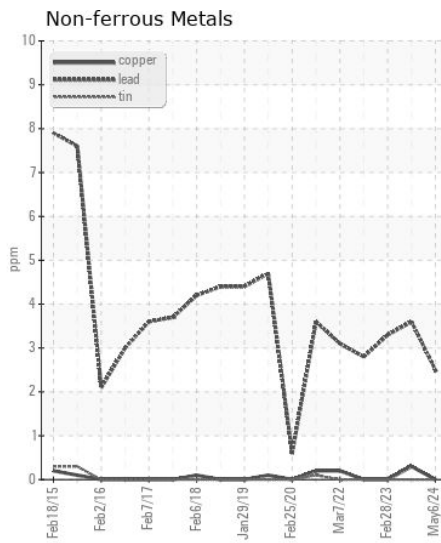
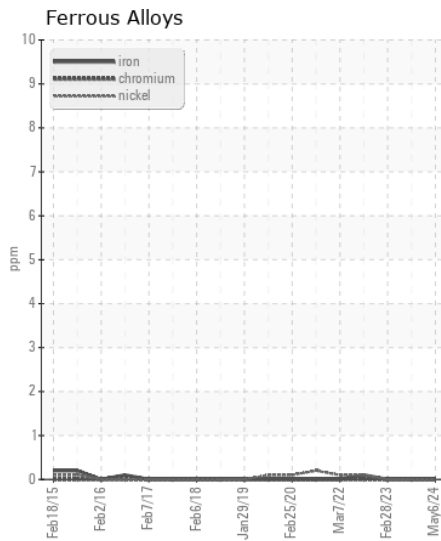
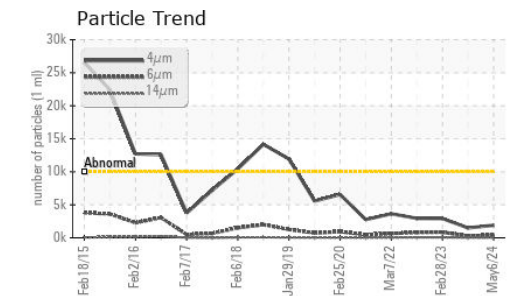
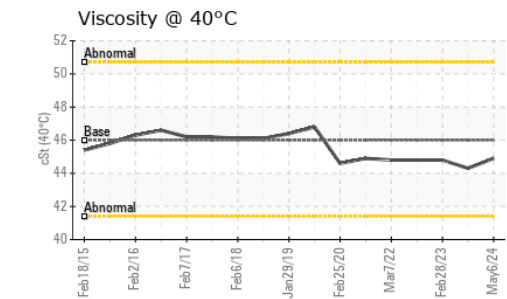
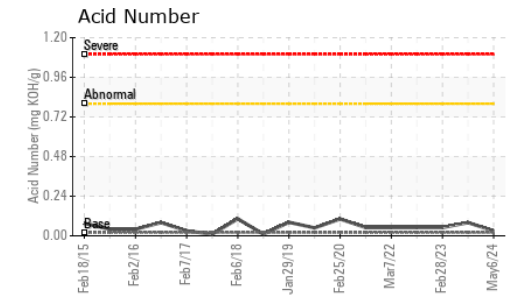
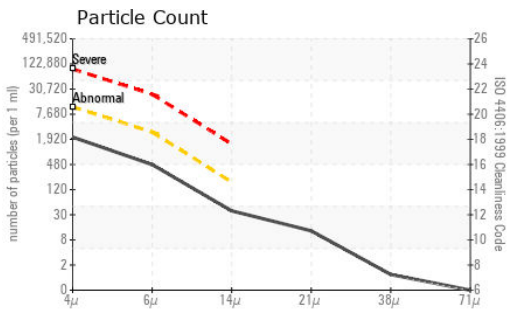
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<1	1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water		WC Method	>2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	1900	1502	2919
Particles >6µm		ASTM D7647	>2500	419	297	843
Particles >14µm		ASTM D7647	>160	33	20	64
Particles >21µm		ASTM D7647	>40	11	6	16
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	18/16/12	18/15/11	19/17/13
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	0	<1
Boron	ppm	ASTM D5185(m)	0	0	<1	<1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Calcium	ppm	ASTM D5185(m)	0	0	5	0
Phosphorus	ppm	ASTM D5185(m)	2.4	0	3	0
Zinc	ppm	ASTM D5185(m)	0	<1	3	<1
Sulfur	ppm	ASTM D5185(m)		57	63	57
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.03	0.08	0.05
Visc @ 40°C	cSt	ASTM D7279(m)	46	44.9	44.3	44.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0862804
Lab Number : 02634350
Unique Number : 5775503
Test Package : IND 2 (Additional Tests: PrtCount, TAN Man)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.