



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
TM 5
Machine Id
TM 5 DRY END LUBE TANK
Component
Tank Lube System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0038114	RP0023605	RP05263968
Sample Date		Client Info		29 Jan 2024	24 May 2023	25 May 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE

WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		15	17	---
Iron	ppm	ASTM D5185m	>20	<1	<1	95
Chromium	ppm	ASTM D5185m	>20	<1	0	28
Nickel	ppm	ASTM D5185m	>20	0	0	23
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	2
Copper	ppm	ASTM D5185m	>20	129	16	33
Tin	ppm	ASTM D5185m	>20	<1	0	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

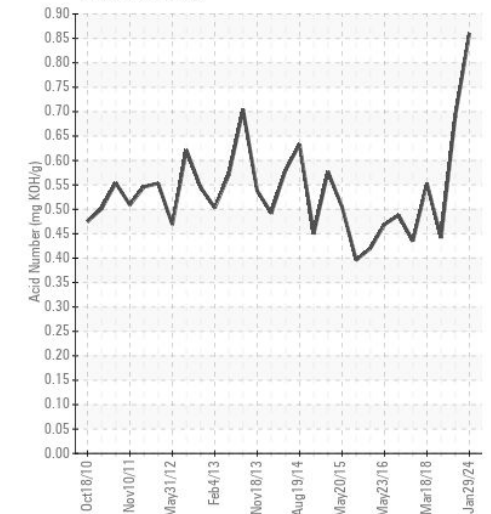
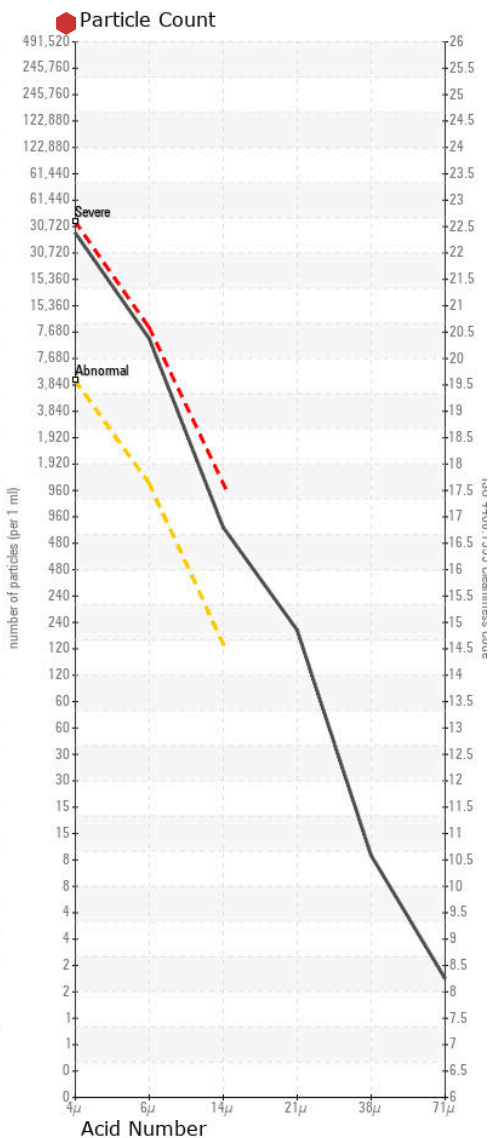
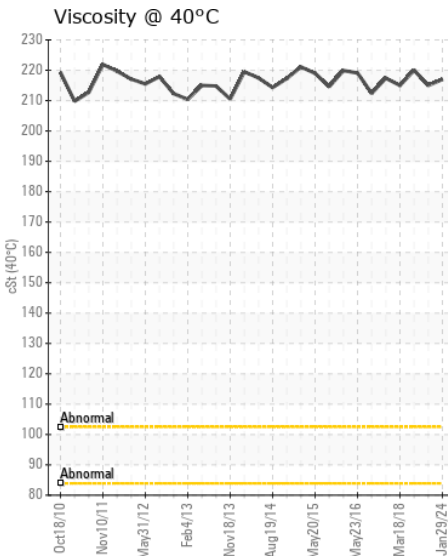
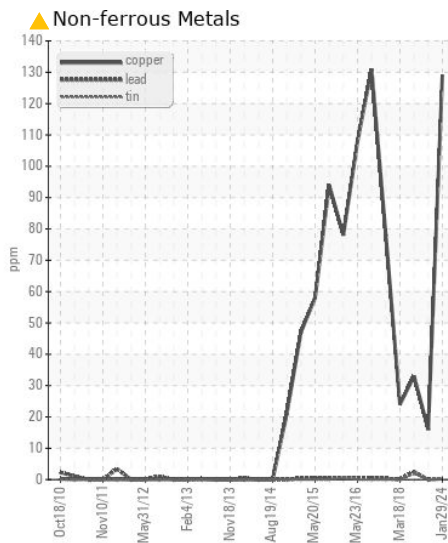
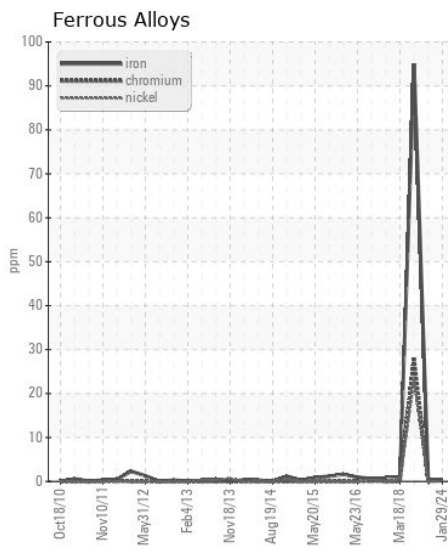
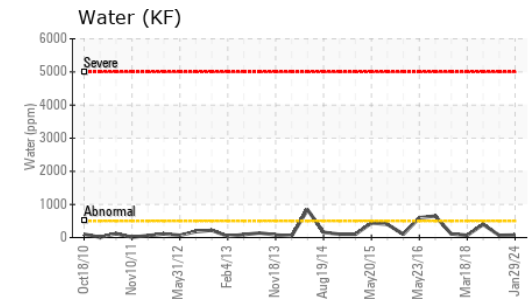
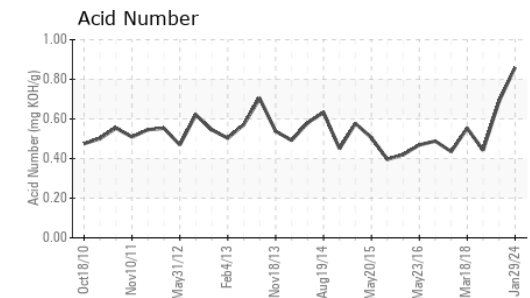
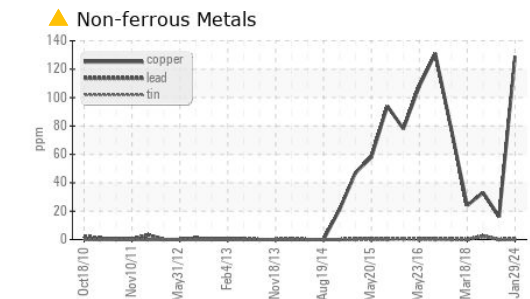
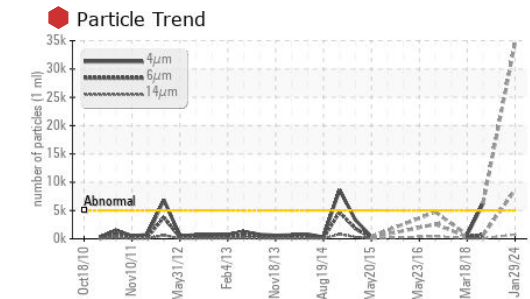
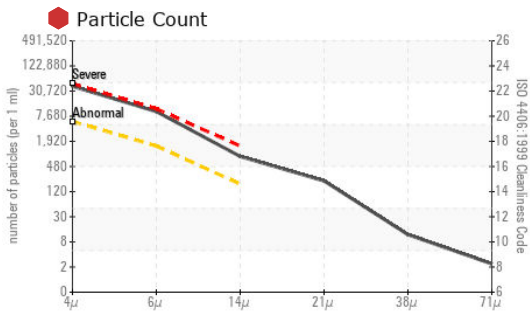
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	3	2	3
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.007	0.006	0.039
ppm Water	ppm	ASTM D6304	>500	76	69.2	397.2
Particles >4µm		ASTM D7647	>5000	34593	---	6253
Particles >6µm		ASTM D7647	>1300	8654	---	656
Particles >14µm		ASTM D7647	>160	733	---	80
Particles >21µm		ASTM D7647	>40	191	---	24
Particles >38µm		ASTM D7647	>10	10	---	0
Particles >71µm		ASTM D7647	>3	2	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/20/17	---	20/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	MODER	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	>0.05	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 D5185m		0	<1	2
Boron	ppm	ASTM D5185m		0	0	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	2
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m		2	1	<1
Calcium	ppm	ASTM D5185m		112	65	7
Phosphorus	ppm	ASTM D5185m		854	627	172
Zinc	ppm	ASTM D5185m		1148	904	301
Acid Number (AN)	mg KOH/g	ASTM D8045		0.86	0.69	0.442
Visc @ 40°C	cSt	ASTM D445		217	215	220



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038114 **Received** : 30 Jan 2024
Lab Number : 06074726 **Diagnosed** : 01 Feb 2024
Unique Number : 10856817 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ, PttCount)

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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