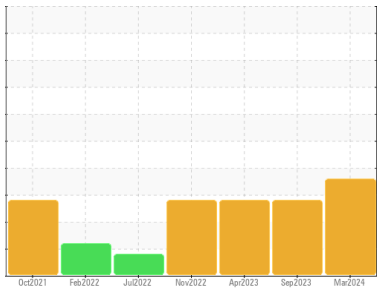
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
DICK LAVY
Machine Id
DICK LAVY 4836
Component
Transmission (Manual)
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Please note that this is a corrected copy for laboratory data updates to retest ICP data.

Wear
The iron level is abnormal. The copper level is abnormal.

Contamination
There is a high amount of particulates 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		**WC0900736**	WC0853954	WC0815544
Sample Date		Client Info		**14 Mar 2024**	08 Sep 2023	22 Apr 2023
Machine Age	mls	Client Info		**362312**	292683	243556
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **238**	▲ 199	▲ 215
Chromium	ppm	ASTM D5185m	>5	**4**	3	3
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>7	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>25	**10**	12	12
Lead	ppm	ASTM D5185m	>45	**<1**	7	<1
Copper	ppm	ASTM D5185m	>225	▲ **352**	▲ 269	▲ 281
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**265**	216	258
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**3**	2	2
Manganese	ppm	ASTM D5185m		**28**	24	28
Magnesium	ppm	ASTM D5185m		**2**	2	2
Calcium	ppm	ASTM D5185m		**210**	183	220
Phosphorus	ppm	ASTM D5185m		**1361**	1089	1251
Zinc	ppm	ASTM D5185m		**36**	28	18
Sulfur	ppm	ASTM D5185m		**2337**	885	1365

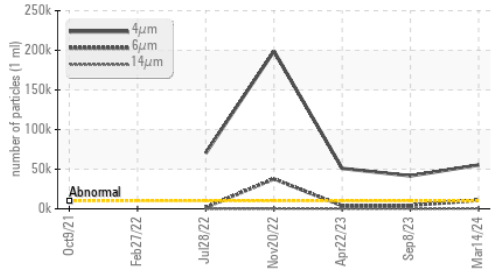
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**18**	15	14
Sodium	ppm	ASTM D5185m		**1**	3	0
Potassium	ppm	ASTM D5185m	>20	**3**	4	2
Water	%	ASTM D6304	>0.1	**0.049**	0.058	0.048
ppm Water	ppm	ASTM D6304	>1000	**497**	587.7	484.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **55290**	▲ 41594	▲ 50947
Particles >6µm		ASTM D7647	>2500	▲ **10695**	● 4155	● 3877
Particles >14µm		ASTM D7647	>320	▲ **565**	71	70
Particles >21µm		ASTM D7647	>80	▲ **137**	20	14
Particles >38µm		ASTM D7647	>20	**4**	2	2
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/21/16**	▲ 23/19/13	▲ 23/19/13

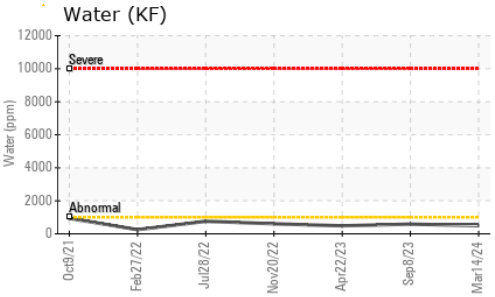
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.19**	3.07	3.25

OIL ANALYSIS REPORT

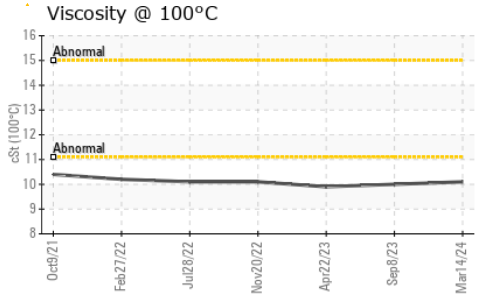
Particle Trend



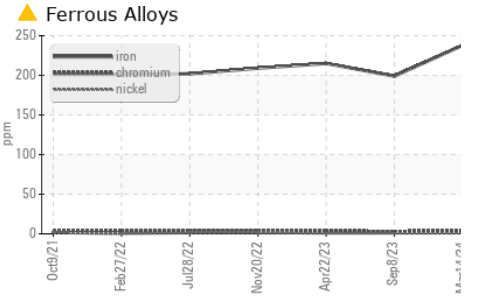
Water (KF)



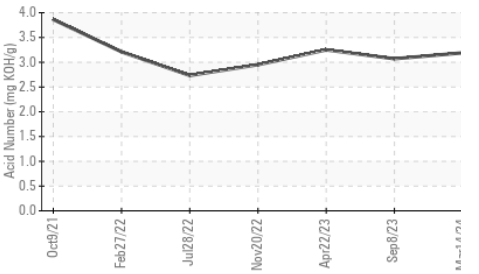
Viscosity @ 100°C



Ferrous Alloys



Acid Number



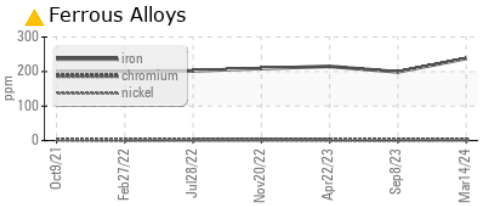
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt	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		**58.5**	57.7	58.1
Visc @ 100°C	cSt	ASTM D445		**10.1**	10.0	9.9
Viscosity Index (VI)	Scale	ASTM D2270		**160**	161	157

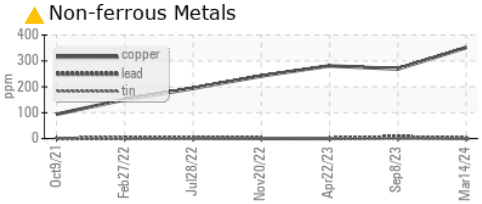
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

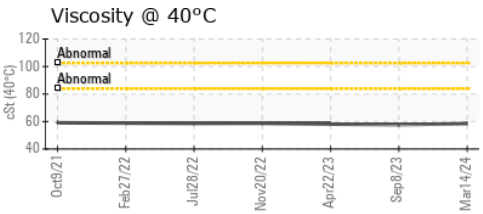
Ferrous Alloys



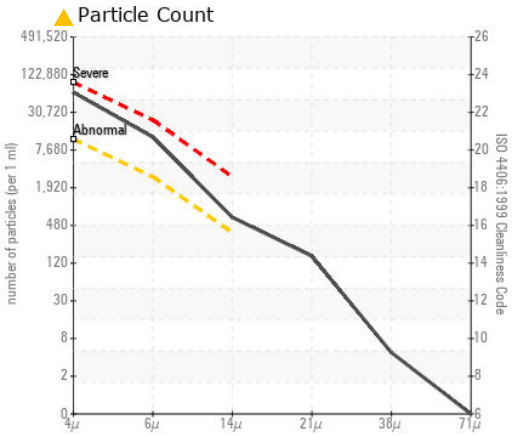
Non-ferrous Metals



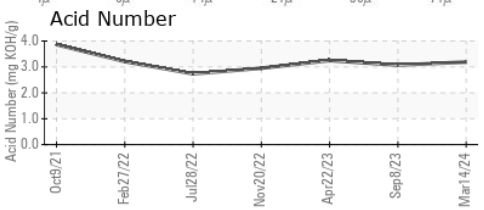
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900736 **Received** : 14 May 2024
Lab Number : 06179365 **Tested** : 21 May 2024
Unique Number : 11030691 **Diagnosed** : 21 May 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, 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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