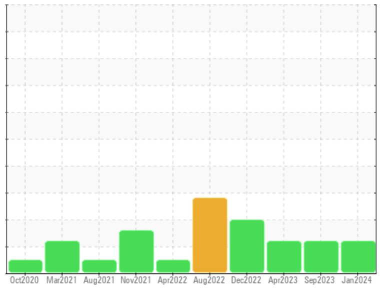
OIL ANALYSIS REPORT

Area
DICK LAVY
Machine Id
DICK LAVY 4819
Component
Transmission
Fluid
{not provided} (--- GAL)

Sample Rating Trend



ISO

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) 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		**WC0900860**	WC0853948	WC0815538
Sample Date		Client Info		**04 Jan 2024**	18 Sep 2023	22 Apr 2023
Machine Age	mls	Client Info		**457388**	419188	360004
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	**45**	41	41
Chromium	ppm	ASTM D5185m	>10	**0**	0	<1
Nickel	ppm	ASTM D5185m		**0**	<1	1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>50	**7**	5	4
Lead	ppm	ASTM D5185m	>50	**<1**	1	1
Copper	ppm	ASTM D5185m	>200	**47**	39	56
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**12**	15	11
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	1	2
Manganese	ppm	ASTM D5185m		**8**	7	8
Magnesium	ppm	ASTM D5185m		**0**	1	3
Calcium	ppm	ASTM D5185m		**567**	516	717
Phosphorus	ppm	ASTM D5185m		**542**	494	643
Zinc	ppm	ASTM D5185m		**74**	70	74
Sulfur	ppm	ASTM D5185m		**3248**	2530	3595

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**39**	36	46
Sodium	ppm	ASTM D5185m		**0**	2	2
Potassium	ppm	ASTM D5185m	>20	**0**	4	2
Water	%	ASTM D6304	>0.1	**0.022**	0.015	0.016
ppm Water	ppm	ASTM D6304	>1000	**226**	159.1	166.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**123272**	84971	51360
Particles >6µm		ASTM D7647	>2500	**25975**	8111	3399
Particles >14µm		ASTM D7647	>320	**265**	50	30
Particles >21µm		ASTM D7647	>80	**33**	12	3
Particles >38µm		ASTM D7647	>20	**0**	1	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**24/22/15**	24/20/13	23/19/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.96**	0.66	0.56

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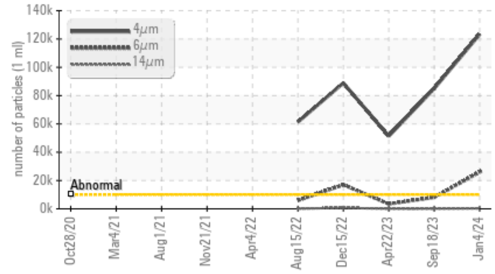
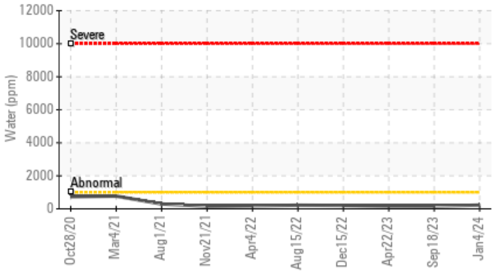
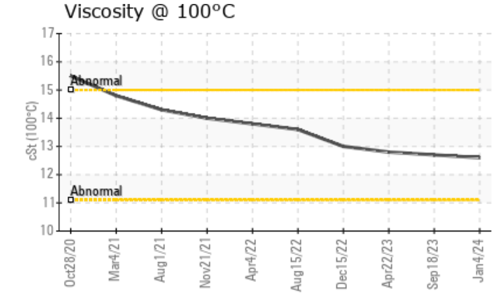
Particle Trend



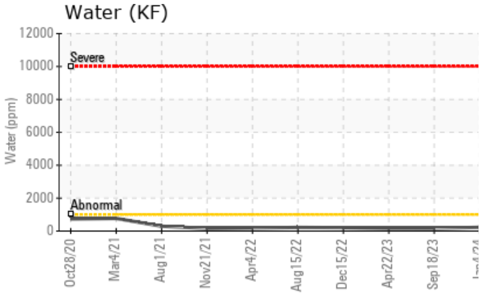
Water (KF)



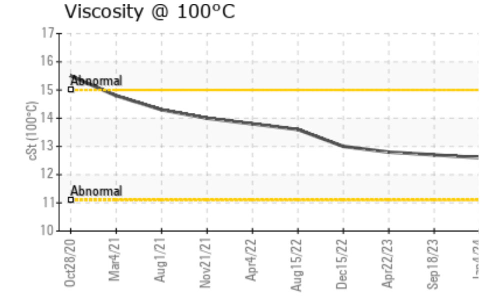
Viscosity @ 100°C



Water (KF)



Viscosity @ 100°C



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	>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		**79.5**	80.0	82.4
Visc @ 100°C	cSt	ASTM D445		**12.6**	12.7	12.8
Viscosity Index (VI)	Scale	ASTM D2270		**157**	158	154

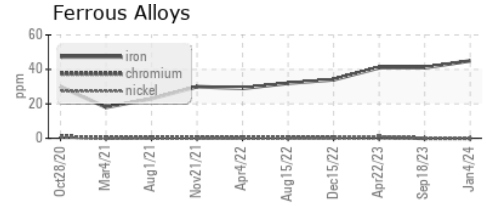
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Color

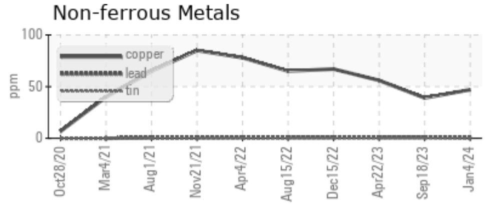
Bottom

GRAPHS

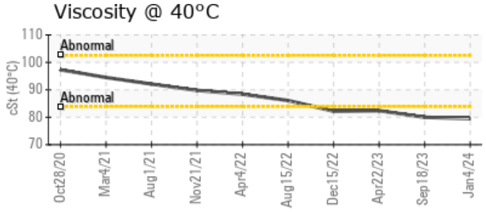
Ferrous Alloys



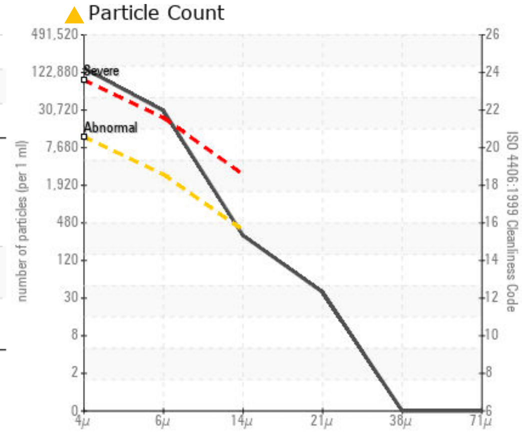
Non-ferrous Metals



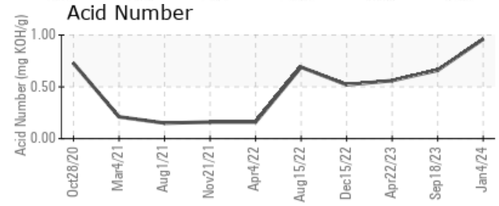
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900860 **Received** : 19 Mar 2024
Lab Number : 06123121 **Tested** : 20 Mar 2024
Unique Number : 10937272 **Diagnosed** : 22 Mar 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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