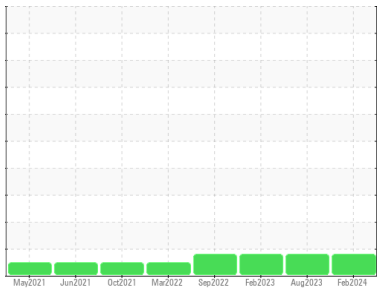
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
DICK LAVY
Machine Id
DICK LAVY 4830
Component
Rear Differential
Fluid
Differential Oil (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for elemental data updates.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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		**WC0900827**	WC0843224	WC0797166
Sample Date		Client Info		**09 Feb 2024**	01 Aug 2023	09 Feb 2023
Machine Age	mls	Client Info		**355172**	296070	245376
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	>500	**201**	181	159
Chromium	ppm	ASTM D5185m	>10	**<1**	1	1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	3	2
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>100	**1**	1	1
Tin	ppm	ASTM D5185m	>10	**<1**	1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

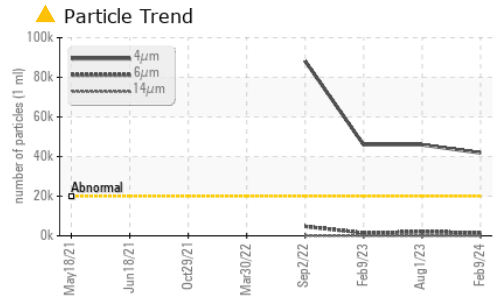
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**85**	107	88
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**8**	9	8
Magnesium	ppm	ASTM D5185m		**187**	155	152
Calcium	ppm	ASTM D5185m		**29**	4	6
Phosphorus	ppm	ASTM D5185m		**1810**	1591	1577
Zinc	ppm	ASTM D5185m		**31**	6	6
Sulfur	ppm	ASTM D5185m		**29849**	25056	26260

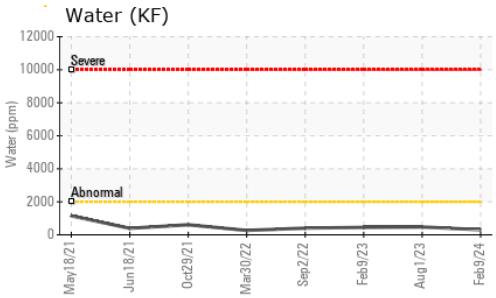
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**42**	35	29
Sodium	ppm	ASTM D5185m		**3**	4	3
Potassium	ppm	ASTM D5185m	>20	**1**	3	<1
Water	%	ASTM D6304	>.2	**0.030**	0.047	0.044
ppm Water	ppm	ASTM D6304	>2000	**305**	476.3	449.7

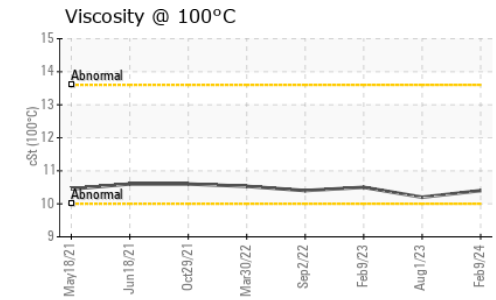
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **41845**	▲ 45900	▲ 45884
Particles >6µm		ASTM D7647	>5000	**1537**	2003	1433
Particles >14µm		ASTM D7647	>640	**22**	24	42
Particles >21µm		ASTM D7647	>160	**7**	6	19
Particles >38µm		ASTM D7647	>40	**1**	0	1
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/18/12**	▲ 23/18/12	▲ 23/18/13

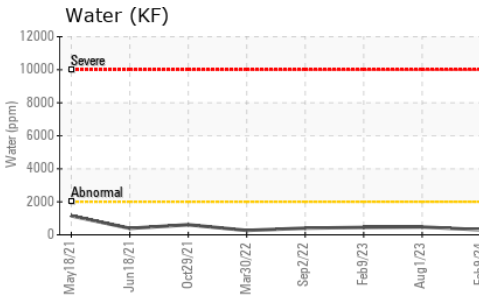
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.97**	0.92	0.87

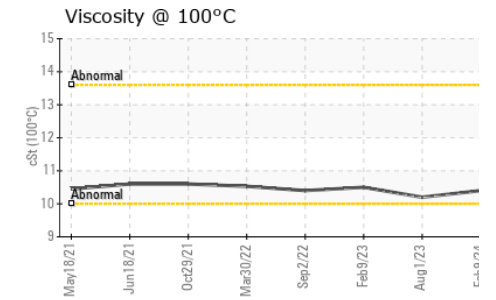
OIL ANALYSIS REPORT









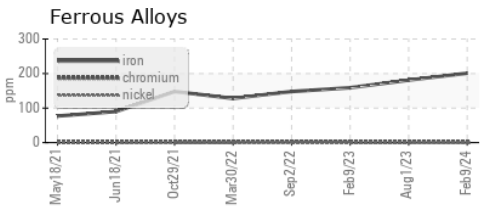


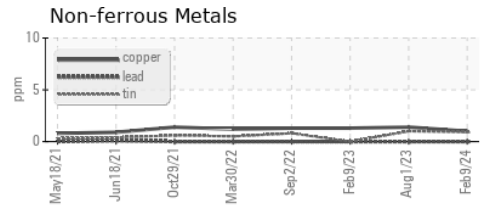
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

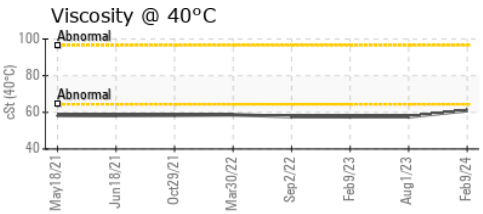
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**61.0**	57.6	57.6
Visc @ 100°C	cSt	ASTM D445		**10.4**	10.2	10.5
Viscosity Index (VI)	Scale	ASTM D2270		**160**	166	174

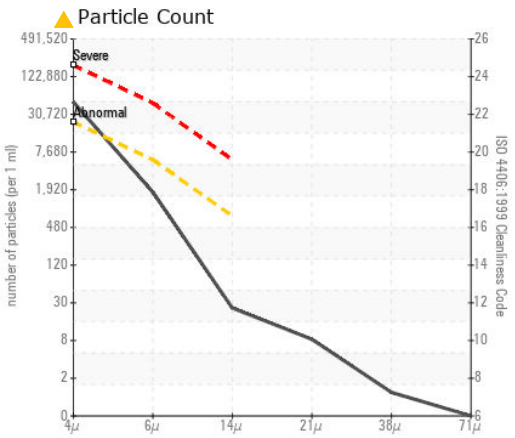
SAMPLE IMAGES						
Color						
Bottom						

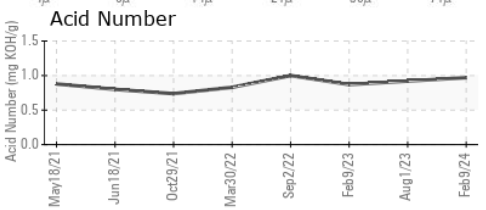
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900827 **Received** : 02 Apr 2024
Lab Number : 06136363 **Tested** : 09 Apr 2024
Unique Number : 10955828 **Diagnosed** : 09 Apr 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

Certificate L2367

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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