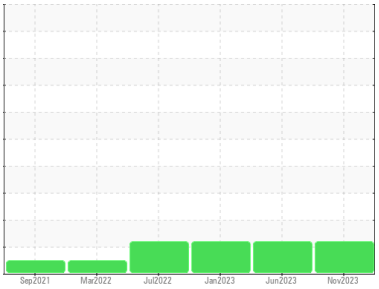
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
DICK LAVY
Machine Id
DICK LAVY 4835
Component
Front Differential
Fluid
{not provided} (--- GAL)

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0876045**	WC0828765	WC0771207
Sample Date		Client Info		**20 Nov 2023**	24 Jun 2023	05 Jan 2023
Machine Age	mls	Client Info		**327052**	270439	208827
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	**319**	298	261
Chromium	ppm	ASTM D5185m	>10	**2**	2	2
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	1	2
Lead	ppm	ASTM D5185m	>25	**0**	0	<1
Copper	ppm	ASTM D5185m	>100	**1**	1	1
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**84**	90	84
Barium	ppm	ASTM D5185m		**0**	0	<1
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**14**	13	12
Magnesium	ppm	ASTM D5185m		**135**	151	142
Calcium	ppm	ASTM D5185m		**0**	4	6
Phosphorus	ppm	ASTM D5185m		**1606**	1590	1483
Zinc	ppm	ASTM D5185m		**0**	0	9
Sulfur	ppm	ASTM D5185m		**22951**	25056	25374

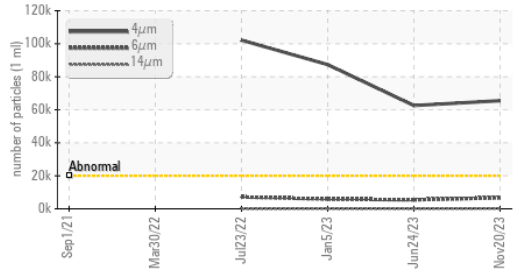
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**37**	26	23
Sodium	ppm	ASTM D5185m		**3**	3	4
Potassium	ppm	ASTM D5185m	>20	**2**	3	<1
Water	%	ASTM D6304	>.2	**0.041**	0.044	0.022
ppm Water	ppm	ASTM D6304	>2000	**417**	448.5	224.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **65491**	▲ 62560	▲ 87356
Particles >6µm		ASTM D7647	>5000	▲ **6697**	▲ 5452	▲ 5862
Particles >14µm		ASTM D7647	>640	**88**	32	27
Particles >21µm		ASTM D7647	>160	**23**	8	8
Particles >38µm		ASTM D7647	>40	**2**	0	4
Particles >71µm		ASTM D7647	>10	**1**	0	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/20/14**	▲ 23/20/12	▲ 24/20/12

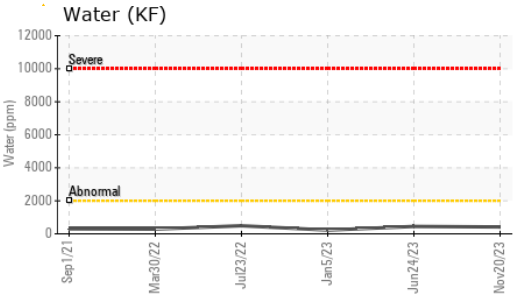
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.22**	0.80	0.76

OIL ANALYSIS REPORT

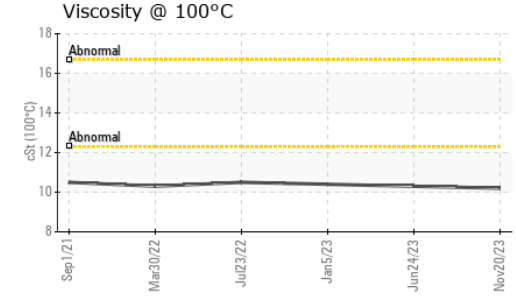
Particle Trend



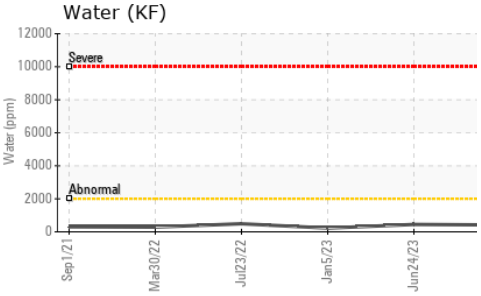
Water (KF)



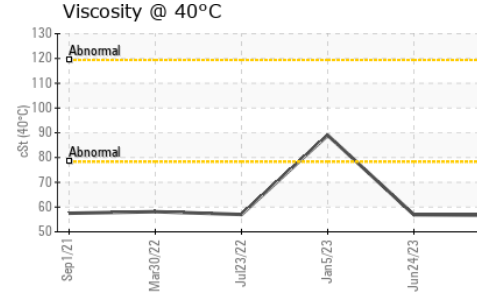
Viscosity @ 100°C



Water (KF)



Viscosity @ 40°C



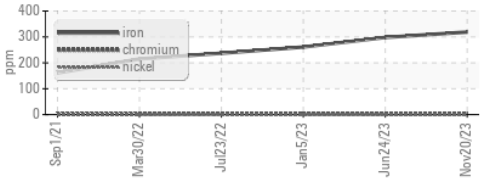
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Sand/Dirt	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		**56.7**	56.9	89.0
Visc @ 100°C	cSt	ASTM D445		**10.2**	10.3	10.4
Viscosity Index (VI)	Scale	ASTM D2270		**169**	171	98

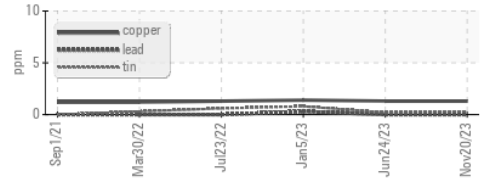
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

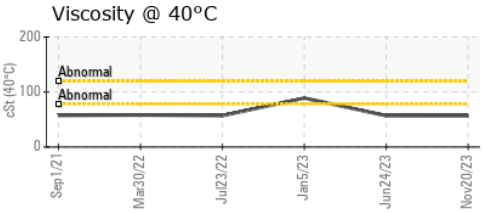
Ferrous Alloys



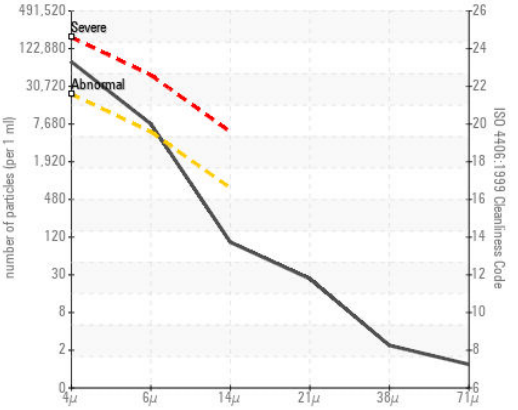
Non-ferrous Metals



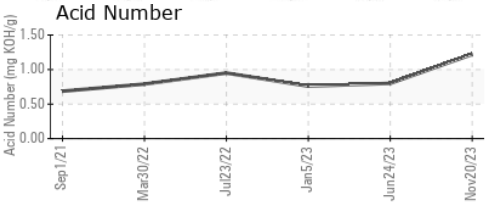
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0876045 **Recieved** : 16 Jan 2024
Lab Number : 06061057 **Diagnosed** : 17 Jan 2024
Unique Number : 10832439 **Diagnostician** : Don Baldridge
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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