



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
DICK LAVY
 Machine Id
DICK LAVY 4950
 Component
Front Differential
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0843207	---	---
Sample Date	Client Info	31 Jul 2023	---	---
Machine Age	mls Client Info	9440	---	---
Oil Age	mls Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	85	---	---
Chromium ppm ASTM D5185m	>10	1	---	---
Nickel ppm ASTM D5185m	>10	0	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	3	---	---
Lead ppm ASTM D5185m	>25	0	---	---
Copper ppm ASTM D5185m	>100	0	---	---
Tin ppm ASTM D5185m	>10	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		185	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		13	---	---
Magnesium ppm ASTM D5185m		3	---	---
Calcium ppm ASTM D5185m		12	---	---
Phosphorus ppm ASTM D5185m		1102	---	---
Zinc ppm ASTM D5185m		2	---	---
Sulfur ppm ASTM D5185m		29246	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	19	---	---
Sodium ppm ASTM D5185m		3	---	---
Potassium ppm ASTM D5185m	>20	<1	---	---
Water % ASTM D6304	>.2	0.076	---	---
ppm Water ppm ASTM D6304	>2000	766.1	---	---

FLUID CLEANLINESS

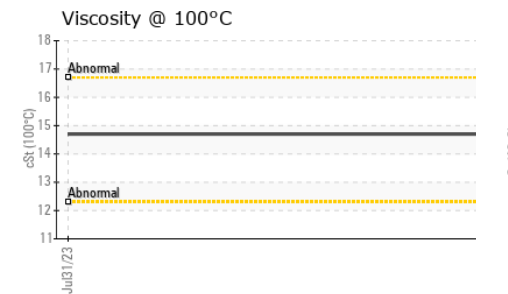
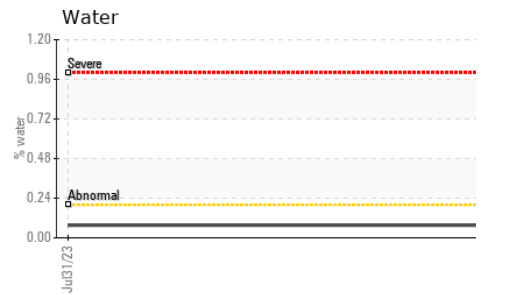
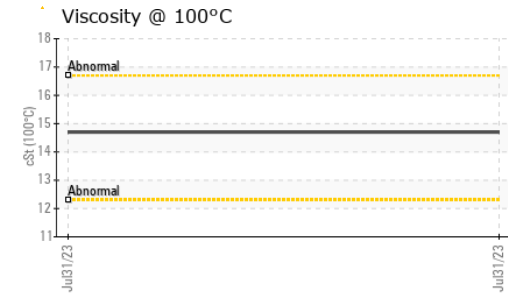
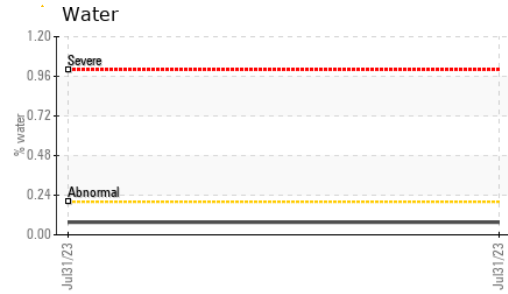
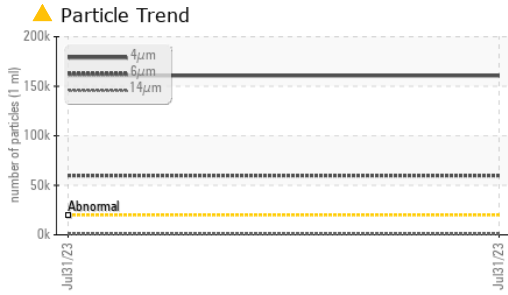
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	▲ 160651	---	---
Particles >6µm ASTM D7647	>5000	▲ 59805	---	---
Particles >14µm ASTM D7647	>640	▲ 770	---	---
Particles >21µm ASTM D7647	>160	▲ 184	---	---
Particles >38µm ASTM D7647	>40	12	---	---
Particles >71µm ASTM D7647	>10	1	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	▲ 25/23/17	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		▲ 3.35	---	---



OIL ANALYSIS REPORT



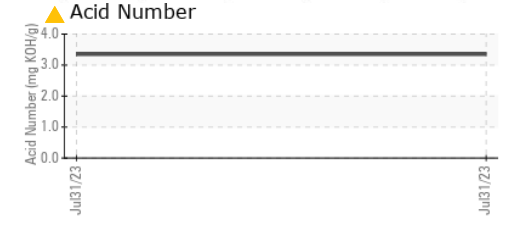
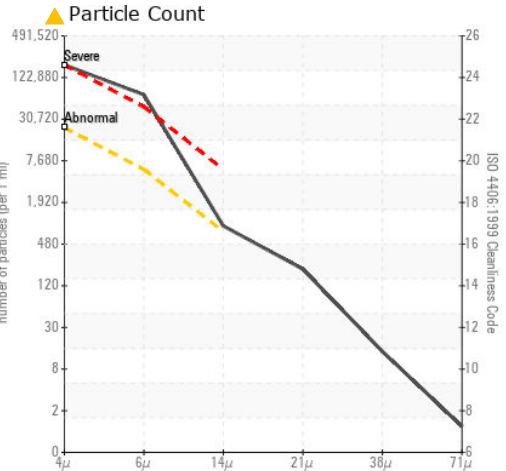
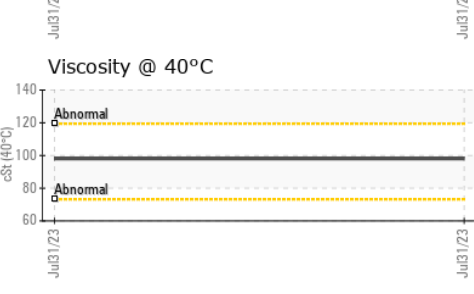
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	98.1	---	---
Visc @ 100°C	cSt	ASTM D445	14.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270	155	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0843207 Received : 29 Aug 2023
 Lab Number : 05937865 Diagnosed : 14 Sep 2023
 Unique Number : 10628477 Diagnostician : Doug Bogart
 Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 gianna.credaroli@basf.com

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)

T:
F: