



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CAT 289D 3003 (S/N TAW12287)
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W90 (1 QTS)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005298	CL0004259	CL0001494
Sample Date		Client Info		31 Mar 2024	05 May 2023	31 Aug 2020
Machine Age	hrs	Client Info		3064	2635	2816
Oil Age	hrs	Client Info		248	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 1091	▲ 1640	▲ 1000
Chromium	ppm	ASTM D5185m	>10	▲ 14	▲ 22	▲ 14
Nickel	ppm	ASTM D5185m	>10	<1	1	1
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	20	● 43	10
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	3	3	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

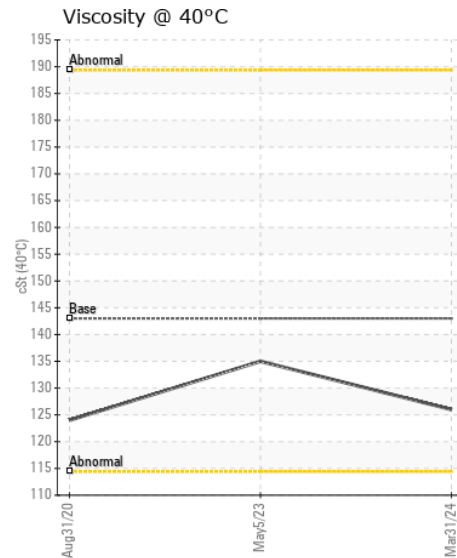
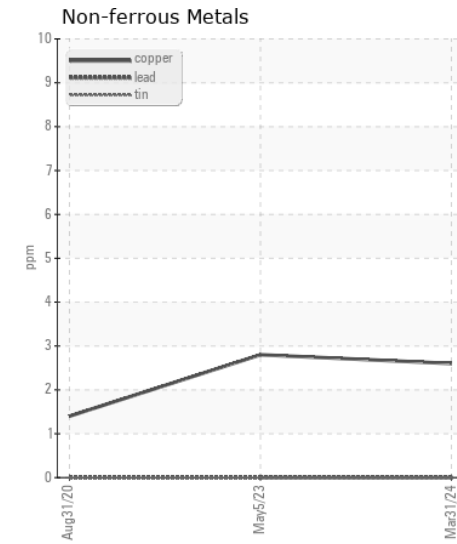
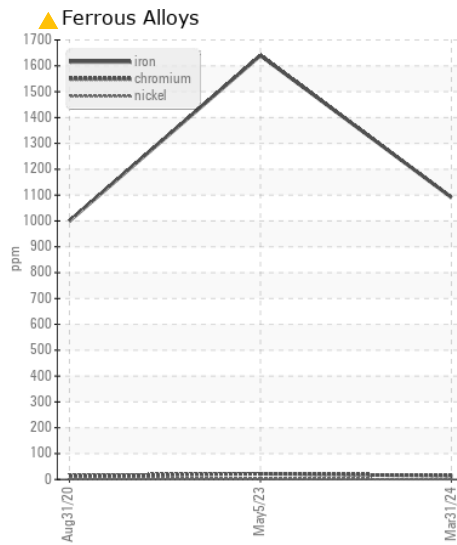
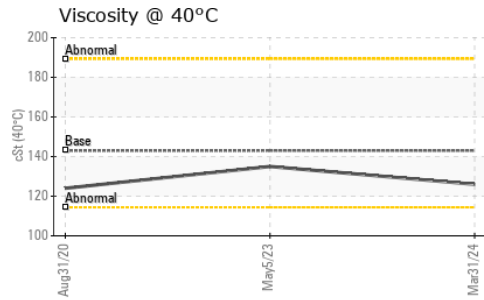
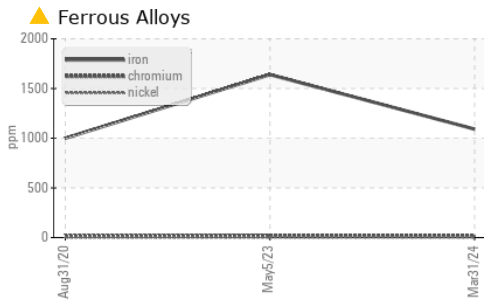
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	63	▲ 115	26
Potassium	ppm	ASTM D5185m	>20	3	0	1
Water		WC Method	>0.2	NEG	NEG	NEG
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	2	4	1
Boron	ppm	ASTM D5185m	400	223	100	26
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	1	1	<1
Manganese	ppm	ASTM D5185m		8	12	6
Magnesium	ppm	ASTM D5185m	12	6	15	15
Calcium	ppm	ASTM D5185m	150	55	54	142
Phosphorus	ppm	ASTM D5185m	1650	1038	641	313
Zinc	ppm	ASTM D5185m	125	48	65	113
Sulfur	ppm	ASTM D5185m	22500	22015	19909	24397
Visc @ 40°C	cSt	ASTM D445	143	126	135	124



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005298
Lab Number : 06145470
Unique Number : 10970278
Test Package : CONST

Received : 10 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 14 Apr 2024 - Don Baldrige

BAKER AR
 8819 COLUMBUS RD
 DAVIDSON, NC
 US 28036
 Contact: Service Manager

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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