



CHALMERS
Lubrication Service
(704) 660-LUBE(5823)

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
ATTENTION

Machine Id

11

Component

Differential

Fluid

GEAR OIL SAE 80 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

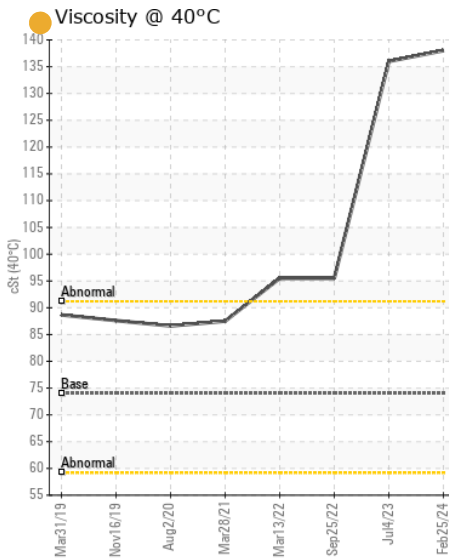
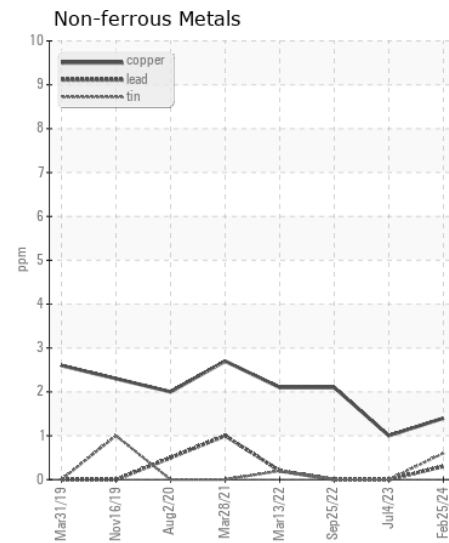
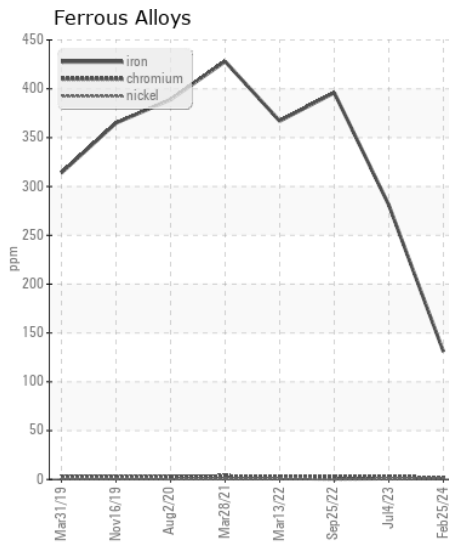
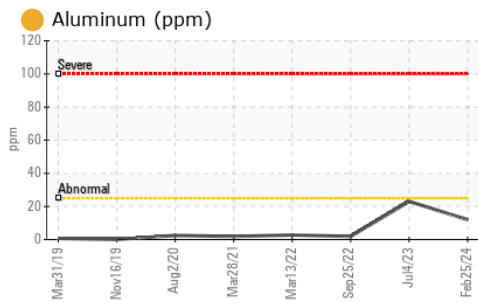
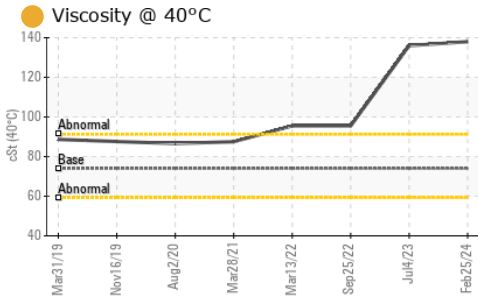
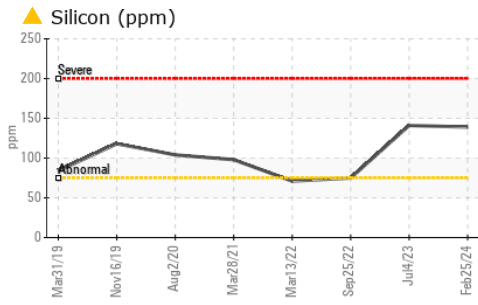
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil viscosity is higher than normal. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005201	CL0004448	CL0003605
Sample Date		Client Info		25 Feb 2024	04 Jul 2023	25 Sep 2022
Machine Age	mls	Client Info		336920	316940	294190
Oil Age	mls	Client Info		336920	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	131	281	396
Chromium	ppm	ASTM D5185m	>10	1	3	3
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		2	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	12	23	2
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	1	1	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	139	141	75
Potassium	ppm	ASTM D5185m	>20	5	4	5
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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
Sodium	ppm	ASTM D5185m		3	7	21
Boron	ppm	ASTM D5185m	400	33	45	191
Barium	ppm	ASTM D5185m	200	1	<1	0
Molybdenum	ppm	ASTM D5185m	12	2	1	1
Manganese	ppm	ASTM D5185m		3	4	10
Magnesium	ppm	ASTM D5185m	12	7	12	5
Calcium	ppm	ASTM D5185m	150	49	66	102
Phosphorus	ppm	ASTM D5185m	1650	662	616	1211
Zinc	ppm	ASTM D5185m	125	11	28	35
Sulfur	ppm	ASTM D5185m	22500	18853	17456	23608
Visc @ 40°C	cSt	ASTM D445	74	138	136	95.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005201
Lab Number : 06103908
Unique Number : 10902138
Test Package : CONST
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 01 Mar 2024 - Don Baldrige

RACE CITY STEEL
 4052 N HWY 16
 DENVER, NC
 US 28037
 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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