

Machine Id 22 Component Differential GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

FLUID CONDITION

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

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Visc @ 40°C

cSt

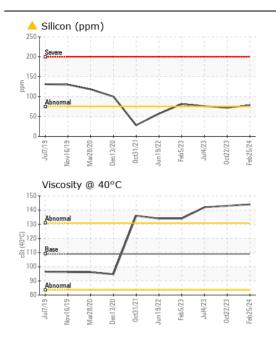
ASTM D445 109

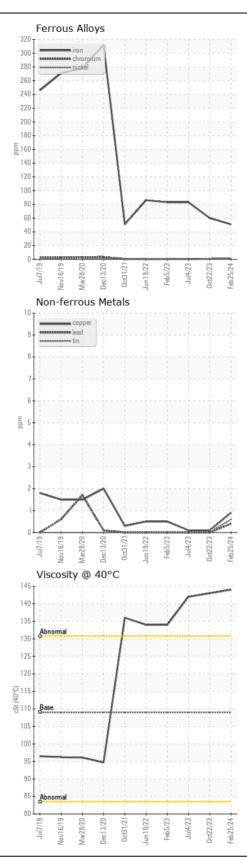
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005207	CL0004839	CL0004451
Sample Date		Client Info		25 Feb 2024	22 Oct 2023	04 Jul 2023
Machine Age	mls	Client Info		330345	317625	307690
Oil Age	mls	Client Info		330345	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	51	60	83
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		1	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	7	9
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
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	7 8	72	A 76
Potassium	ppm	ASTM D5185m	>20	3	3	<1
Water	le le	WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	A MODER
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
0				• • • • • • • • • • • • • • • • • • • •		
Sodium	ppm	ASTM D5185m	400	0	3	3
Boron	ppm	ASTM D5185m ASTM D5185m		12	10	21
Barium	ppm		200	1	0	0
Molybdenum	ppm	ASTM D5185m	12	2	1	1
Manganese	ppm	ASTM D5185m	10	2	<1	<1
Magnesium	ppm	ASTM D5185m	12	4	6	8
Calcium	ppm	ASTM D5185m	150	33	27	53
Phosphorus	ppm	ASTM D5185m	1650	551	564	603
Zinc	ppm	ASTM D5185m	125	10	10	26
Sulfur	ppm	ASTM D5185m	22500	16367 144	14608	17502
Vice @ 10°C	cSt	ASTM D445	100	1/1/1	1/13	1/2

143 Submitted By: JEFF CHALMERS

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **RACE CITY STEEL** : 28 Feb 2024 4052 N HWY 16 : 29 Feb 2024 DENVER, NC : 01 Mar 2024 - Don Baldridge US 28037 Contact: SERVICE MANAGER

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: CL0005207

* - 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)

Received

Diagnosed

Tested

Certificate L2367

Laboratory

Sample No.

Lab Number : 06103921

Unique Number : 10902151

Test Package : CONST

Submitted By: JEFF CHALMERS

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