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

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
110
Component
Transmission (Auto)
Fluid
ATF (PAO) (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

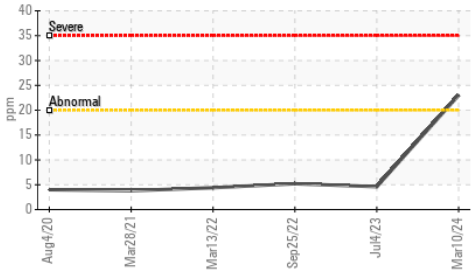
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**CL0005219**	CL0004458	CL0003609
Sample Date		Client Info		**10 Mar 2024**	04 Jul 2023	25 Sep 2022
Machine Age	mls	Client Info		**191275**	160031	123510
Oil Age	mls	Client Info		**191275**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>160	**152**	120	118
Chromium	ppm	ASTM D5185m	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>50	● **26**	16	13
Lead	ppm	ASTM D5185m	>50	**32**	29	31
Copper	ppm	ASTM D5185m	>225	**31**	23	21
Tin	ppm	ASTM D5185m	>10	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	▲ **23**	5	5
Potassium	ppm	ASTM D5185m	>20	**5**	2	4
Water		WC Method	>0.1	**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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**8**	9	6
Boron	ppm	ASTM D5185m	175	**103**	105	102
Barium	ppm	ASTM D5185m	5	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	5	**<1**	0	0
Manganese	ppm	ASTM D5185m		**6**	5	6
Magnesium	ppm	ASTM D5185m	5	**1**	5	<1
Calcium	ppm	ASTM D5185m	125	**46**	52	41
Phosphorus	ppm	ASTM D5185m	290	**295**	261	261
Zinc	ppm	ASTM D5185m	10	**10**	22	7
Sulfur	ppm	ASTM D5185m	400	**599**	656	766
Visc @ 40°C	cSt	ASTM D445	32.3	**35.9**	35.9	36.3

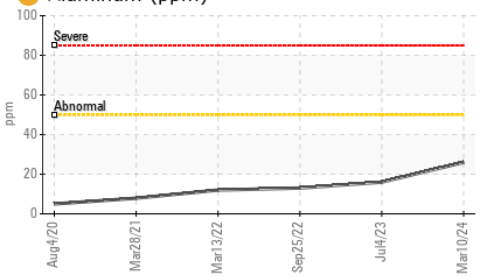
Report Id: RACDEN [WUSCAR] 06121847 (Generated: 03/21/2024 17:55:06) Rev: 1

Submitted By: JEFF CHALMERS

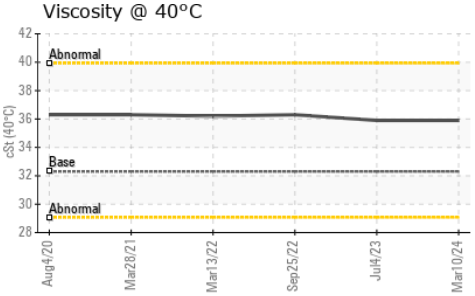
Silicon (ppm)



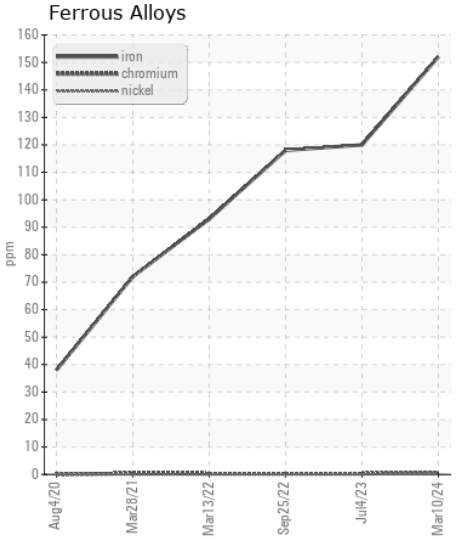
Aluminum (ppm)



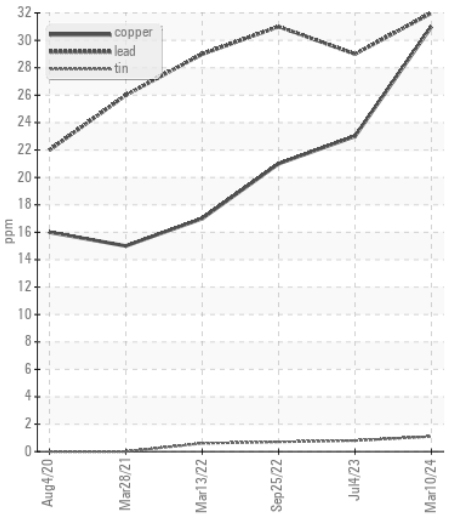
Viscosity @ 40°C



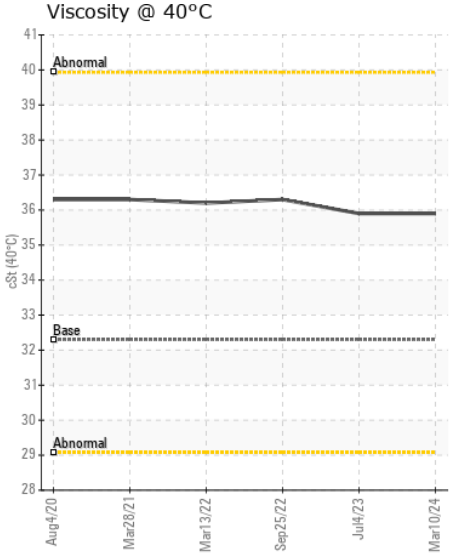
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: CL0005219	**Received**	: 18 Mar 2024
Lab Number	: 06121847	**Tested**	: 19 Mar 2024
Unique Number	: 10935998	**Diagnosed**	: 21 Mar 2024 - Angela Borella
Test Package	: CONST		

RACE CITY STEEL
4052 N HWY 16
DENVER, NC
US 28037
Contact: SERVICE MANAGER
T:
F:

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)