WEAR CONTAMINATION FLUID CONDITION

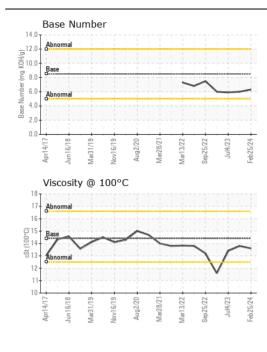
NORMAL NORMAL

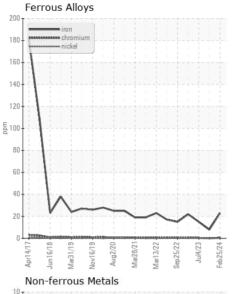
Machine Id

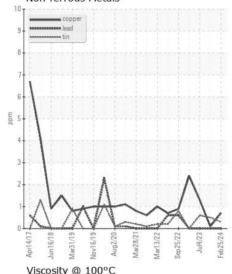
11

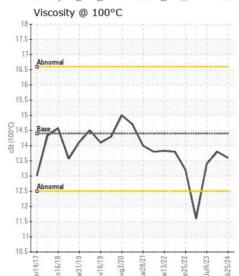
Diesel Engine

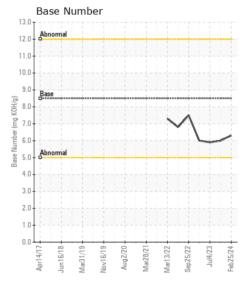
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	OOW	Client Info	LIIIIU/IOII	CL0005200	CL0004837	CL000444
	Sample Date		Client Info		25 Feb 2024	22 Oct 2023	04 Jul 202
	Machine Age	mls	Client Info		336920	326456	316940
	Oil Age	mls	Client Info		10464	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>80	23	8	15
	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	9	5	7
	Lead	ppm	ASTM D5185m	>30	0	0	0
	Copper	ppm	ASTM D5185m	>150	<1	<1	1
	Tin	ppm	ASTM D5185m	>5	<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
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	6	6
	Potassium	ppm	ASTM D5185m	>20	<1	1	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	1.7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.1	11.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.1	23.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		37	28	29
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	86	85	86
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		20	30	20
	Calcium	ppm	ASTM D5185m		2127	2141	2210
	Phosphorus	ppm	ASTM D5185m		1032	1000	1027
	Zinc	ppm	ASTM D5185m		1229	1239	1294
	Sulfur	ppm	ASTM D5185m		3499	3496	4334
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		17.2 6.3	16.4 6.0	20.6
	Base Number (BN)						













Laboratory Sample No.

: CL0005200 Lab Number : 06103623 Unique Number: 10901853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 28 Feb 2024 : 29 Feb 2024

: 29 Feb 2024 - Wes Davis

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

Contact: SERVICE MANAGER

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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)

Report Id: RACDEN [WUSCAR] 06103623 (Generated: 02/29/2024 15:08:59) Rev: 1

Submitted By: JEFF CHALMERS

T:

F: