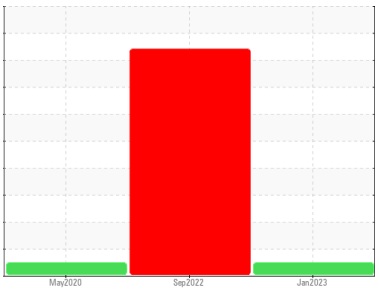
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
PORTABLE WATER PUMP
Component
Diesel Engine
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0721338**	WC0721140	WCDB3935
Sample Date		Client Info		**12 Jan 2023**	14 Sep 2022	19 May 2020
Machine Age	hrs	Client Info		**3643**	3862	7622
Oil Age	hrs	Client Info		**500**	500	500
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	**14**	29	31
Chromium	ppm	ASTM D5185m	>11	**<1**	2	1
Nickel	ppm	ASTM D5185m	>5	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>31	**2**	5	2
Lead	ppm	ASTM D5185m	>26	**<1**	6	2
Copper	ppm	ASTM D5185m	>26	**<1**	3	2
Tin	ppm	ASTM D5185m	>4	**0**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	1	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**13**	58	14
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**57**	20	69
Manganese	ppm	ASTM D5185m		**<1**	2	<1
Magnesium	ppm	ASTM D5185m		**877**	222	1081
Calcium	ppm	ASTM D5185m		**1072**	1774	1339
Phosphorus	ppm	ASTM D5185m		**959**	757	1051
Zinc	ppm	ASTM D5185m		**1112**	1025	1345
Sulfur	ppm	ASTM D5185m		**3633**	3626	2569

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	**6**	18	5
Sodium	ppm	ASTM D5185m	>31	**42**	▲ 258	10
Potassium	ppm	ASTM D5185m	>20	**27**	▲ 203	1
Glycol	%	*ASTM D2982		**NEG**	⬢ 0.10	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**6.3**	11.4	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**17.4**	24.7	23.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**13.2**	17.6	22.5
Base Number (BN)	mg KOH/g	ASTM D2896		**10.49**	6.60	9.18

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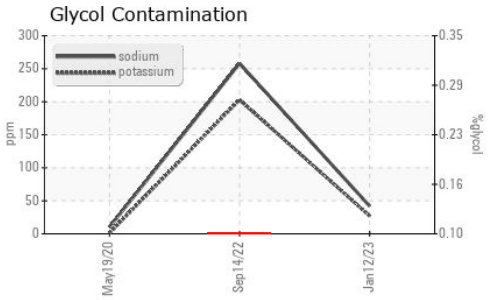
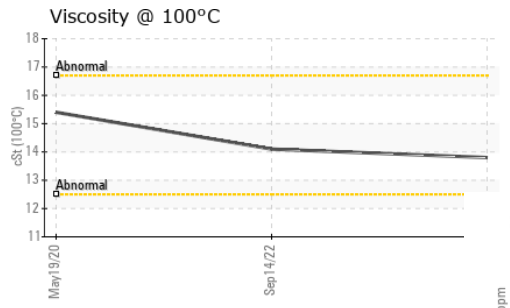
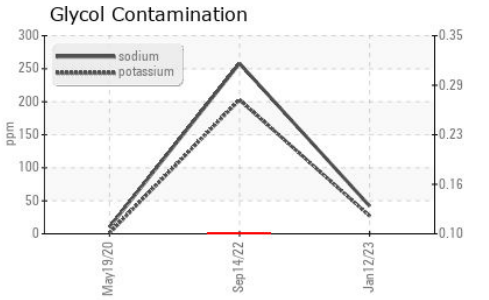


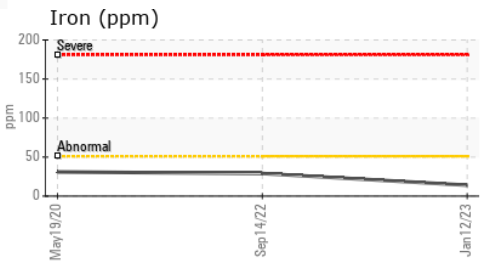


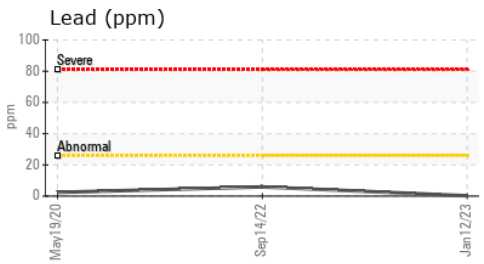


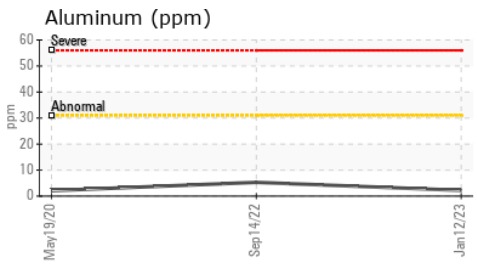
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

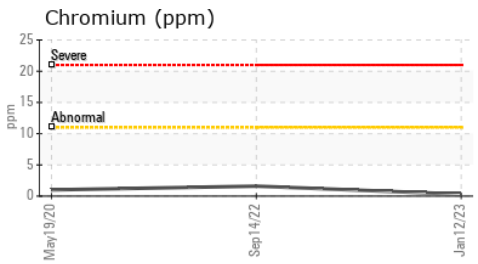
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.8**	14.1	15.4

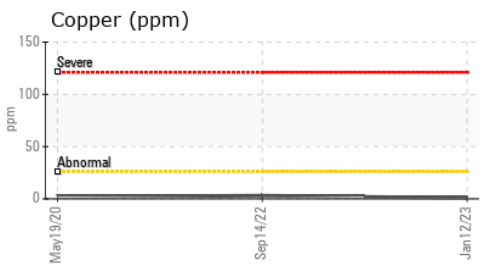
GRAPHS

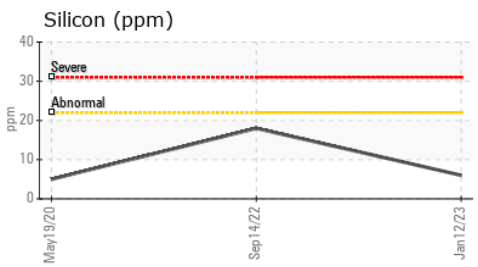


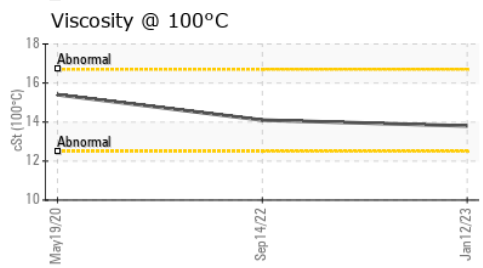


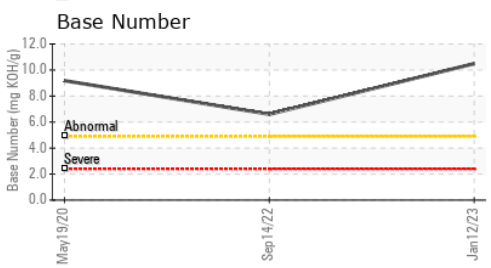












ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0721338
Lab Number : 05757852
Unique Number : 10322459
Test Package : MOB 2
Received : 02 Feb 2023
Diagnosed : 06 Feb 2023
Diagnostician : Jonathan Hester

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)

TRESCA BROS SAND & GRAVEL INC
66 MAIN ST
MILLIS, MA
US 02054
Contact: FRAN ROSSI
frossi@trescaconcrete.com
T: (508)376-2957
F: (508)376-4333

Report Id: TREMILMA [WUSCAR] 05757852 (Generated: 08/24/2023 14:36:20) Rev: 1

Submitted By: JOHN HATZISTEFANOU