James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SENNEBOGEN 835 835.0.2918
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

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.

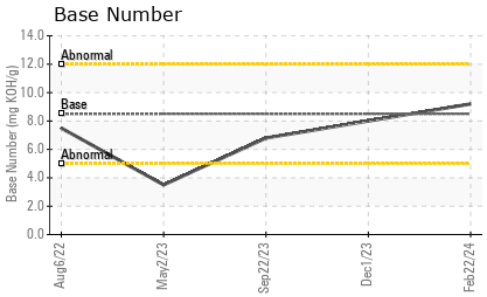
FLUID CONDITION

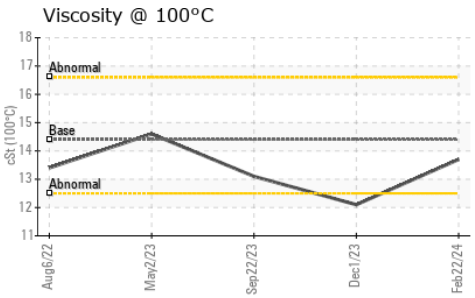
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

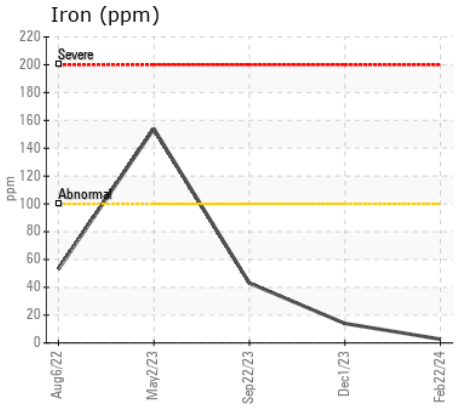
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0125879	JR0170410	JR0170435
Sample Date		Client Info		22 Feb 2024	01 Dec 2023	22 Sep 2023
Machine Age	hrs	Client Info		7471	6859	6212
Oil Age	hrs	Client Info		20	0	5100
Filter Age	hrs	Client Info		20	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
Iron	ppm	ASTM D5185m	>100	3	14	43
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	3	4
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	10	11
Potassium	ppm	ASTM D5185m	>20	2	3	7
Fuel		WC Method	>5	<1.0	▲ 4.8	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.9	9.3	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.8	27.5
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>158	0	0	2
Boron	ppm	ASTM D5185m	250	288	197	45
Barium	ppm	ASTM D5185m	10	9	0	0
Molybdenum	ppm	ASTM D5185m	100	247	253	255
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	450	732	779	884
Calcium	ppm	ASTM D5185m	3000	1234	1362	1574
Phosphorus	ppm	ASTM D5185m	1150	888	766	842
Zinc	ppm	ASTM D5185m	1350	972	989	1104
Sulfur	ppm	ASTM D5185m	4250	3093	3056	3462
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	20.1	26.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2	8.0	6.8
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	12.1	13.1

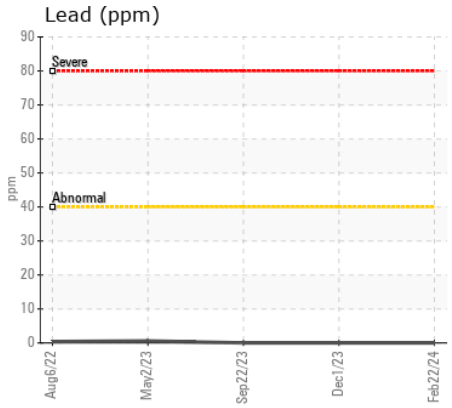
Report Id: JAMSALJR [WUSCAR] 06099998 (Generated: 02/27/2024 23:15:40) Rev: 1

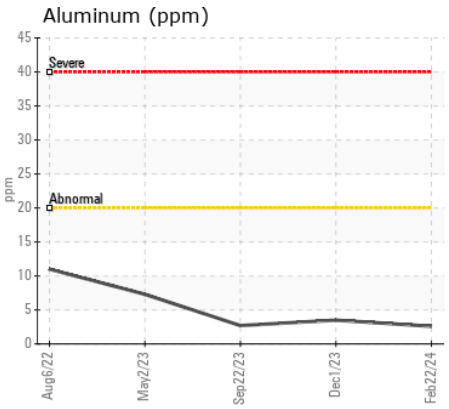
Submitted By: BRETT LAWRENCE

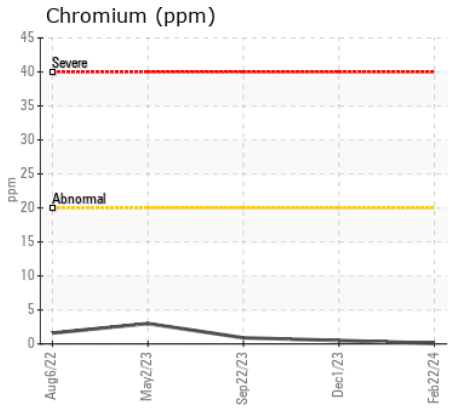


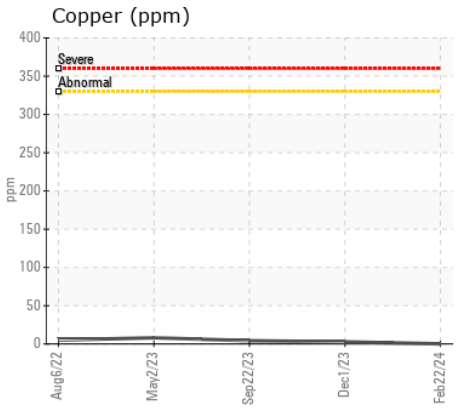


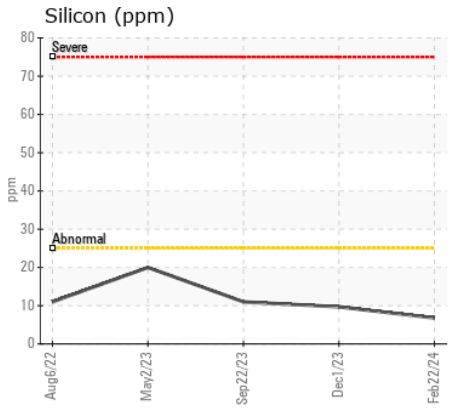


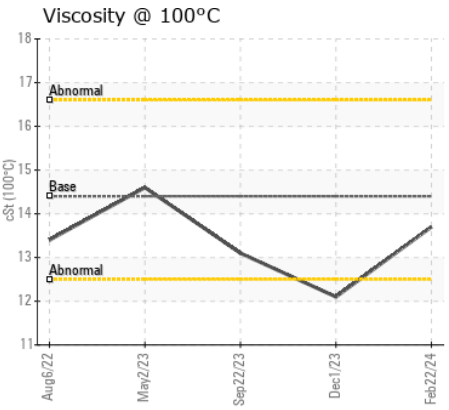


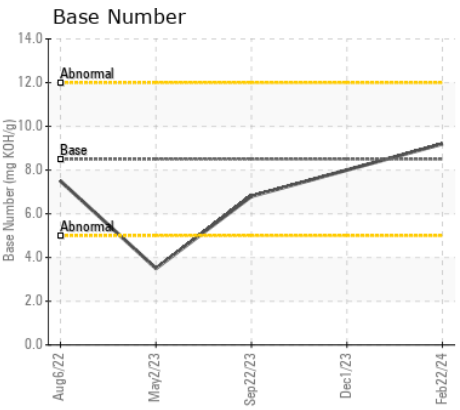












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0125879	**Received**	: 26 Feb 2024
Lab Number	: 06099998	**Tested**	: 27 Feb 2024
Unique Number	: 10898228	**Diagnosed**	: 27 Feb 2024 - Wes Davis
Test Package	: MOBCE (Additional Tests: TBN)		

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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