CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[HOWARD SHOCKEY&SONS]
Machine Id
MMG125 C190080 (S/N 083083)
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

WEAR

Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

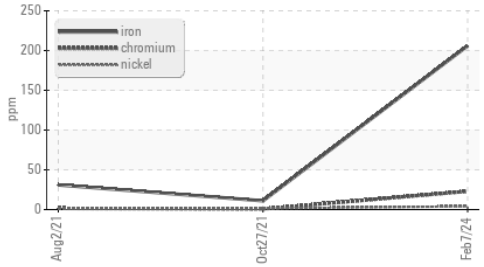
There is no indication of any contamination in the oil.

FLUID CONDITION

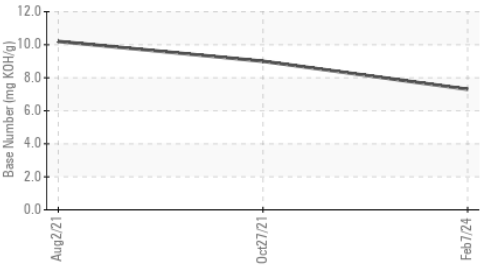
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195613	JR0104257	JR0097363
Sample Date		Client Info		07 Feb 2024	27 Oct 2021	02 Aug 2021
Machine Age	hrs	Client Info		23438	19645	18944
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	▲ 206	11	31
Chromium	ppm	ASTM D5185m	>20	▲ 23	<1	2
Nickel	ppm	ASTM D5185m	>4	4	1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	3	6
Lead	ppm	ASTM D5185m	>40	36	7	19
Copper	ppm	ASTM D5185m	>330	14	<1	1
Tin	ppm	ASTM D5185m	>15	5	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	7	8
Potassium	ppm	ASTM D5185m	>20	2	2	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.3	12	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.9	24.2	30.2
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		0	3	3
Boron	ppm	ASTM D5185m		145	126	167
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		230	189	314
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		461	540	1191
Calcium	ppm	ASTM D5185m		2576	1867	2159
Phosphorus	ppm	ASTM D5185m		1063	941	1055
Zinc	ppm	ASTM D5185m		1512	1317	1381
Sulfur	ppm	ASTM D5185m		2977	2684	3136
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.3	22.6	30.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	9	10.2
Visc @ 100°C	cSt	ASTM D445		16.5	15.9	16.8

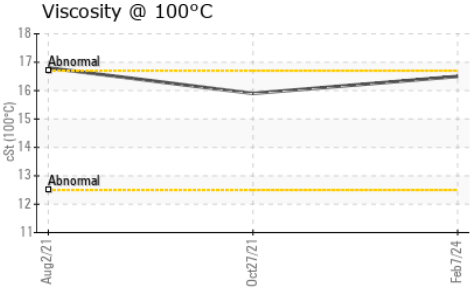
Ferrous Alloys



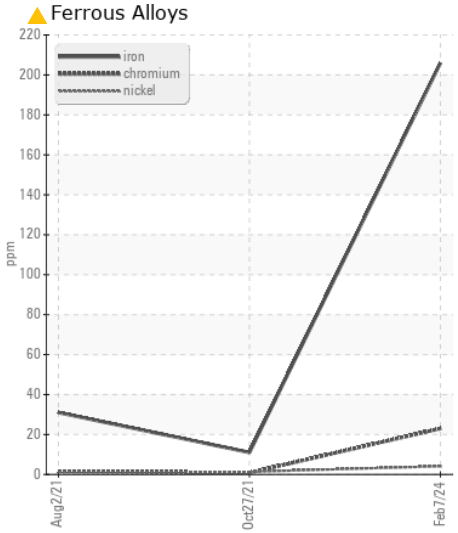
Base Number



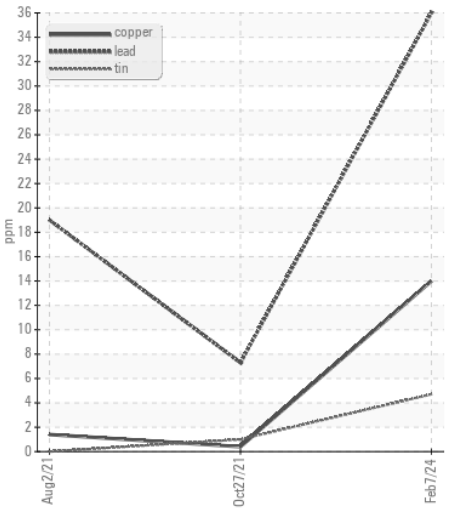
Viscosity @ 100°C



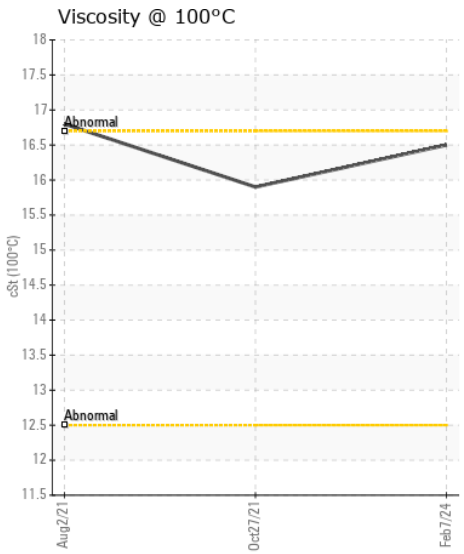
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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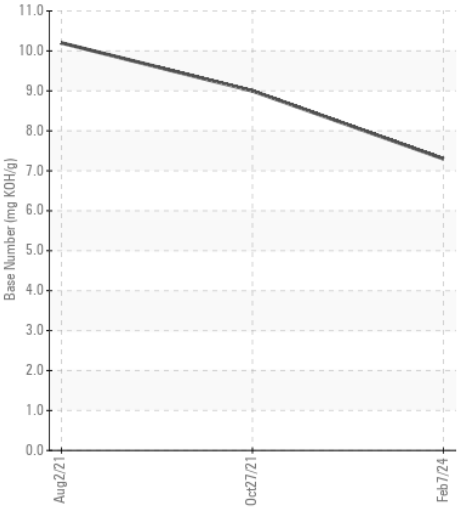

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195613 **Received** : 09 Feb 2024
Lab Number : 06085341 **Tested** : 12 Feb 2024
Unique Number : 10872786 **Diagnosed** : 12 Feb 2024 - Don Baldridge
Test Package : CONST (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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