MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 2511
Component
Hydraulic System
Fluid
PROGARD ARCTIC AW 15 (48 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

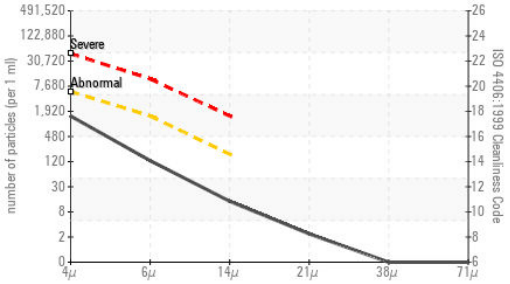
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

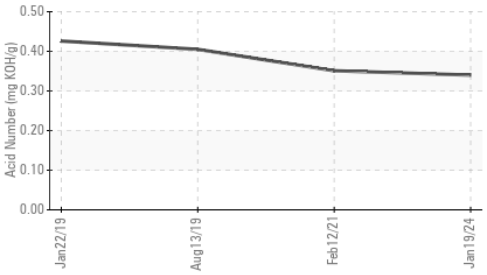
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**RW0004927**	RW0002094	RW0000320
Sample Date		Client Info		**19 Jan 2024**	12 Feb 2021	13 Aug 2019
Machine Age	hrs	Client Info		**5245**	0	9
Oil Age	hrs	Client Info		**0**	1	1
Filter Age	hrs	Client Info		**0**	1	1
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>40	**<1**	1	2
Chromium	ppm	ASTM D5185m	>5	**0**	0	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m	>2	**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>8	**0**	<1	<1
Lead	ppm	ASTM D5185m	>5	**0**	<1	<1
Copper	ppm	ASTM D5185m	>20	**4**	6	7
Tin	ppm	ASTM D5185m	>2	**0**	0	<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	**<1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	0
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>5000	**1296**	▲ 5504	3709
Particles >6µm		ASTM D7647	>1300	**112**	343	271
Particles >14µm		ASTM D7647	>160	**12**	16	24
Particles >21µm		ASTM D7647	>40	**2**	6	7
Particles >38µm		ASTM D7647	>10	**0**	1	2
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**17/14/11**	▲ 20/16/11	19/15/12
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		**<1**	<1	<1
Boron	ppm	ASTM D5185m		**<1**	<1	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**0**	0	<1
Calcium	ppm	ASTM D5185m		**59**	37	45
Phosphorus	ppm	ASTM D5185m		**328**	322	366
Zinc	ppm	ASTM D5185m		**384**	361	434
Sulfur	ppm	ASTM D5185m		**1052**	835	1029
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.34**	0.351	0.405
Visc @ 40°C	cSt	ASTM D445		**17.0**	18.2	18.6

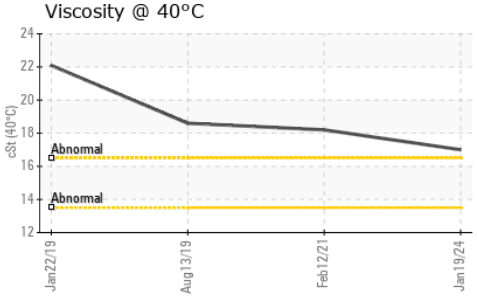
Particle Count



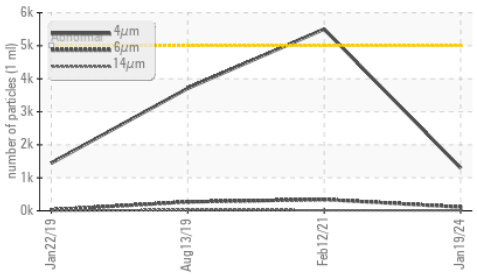
Acid Number



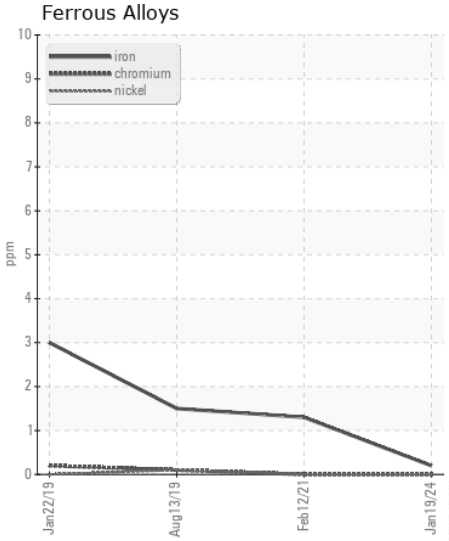
Viscosity @ 40°C



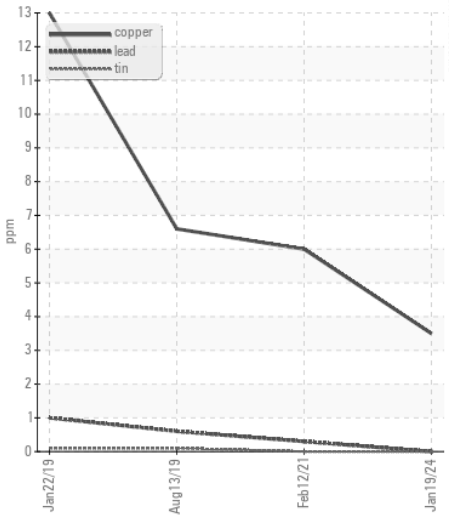
Particle Trend



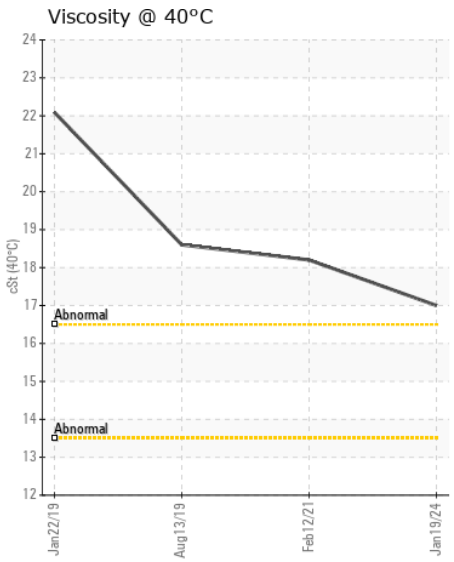
Ferrous Alloys



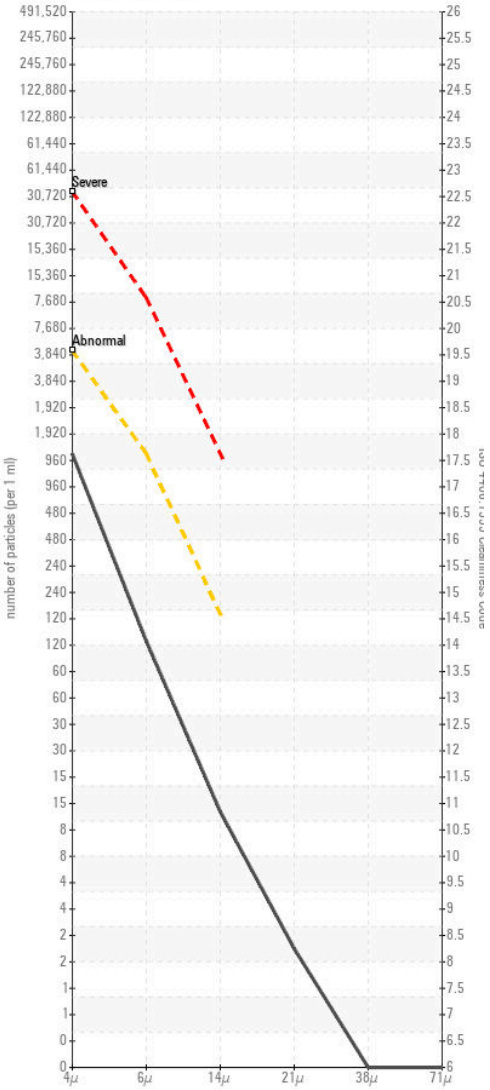
Non-ferrous Metals



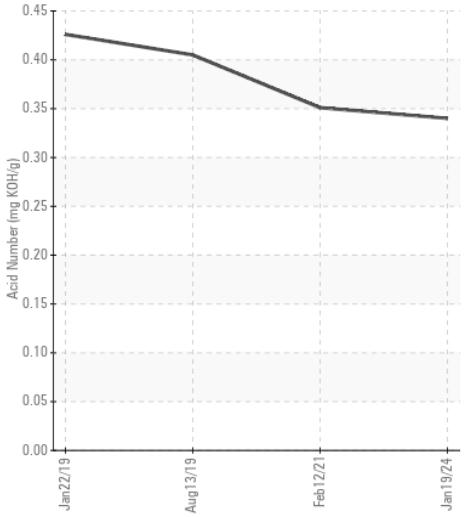
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0004927
Lab Number : 06084773
Unique Number : 10872218
Test Package : MOB 2

Received : 09 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Doug Bogart

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)

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