MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
FREIGHTLINER 2461
Component
Hydraulic System
Fluid
PROGARD ARCTIC AW 15 (40 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

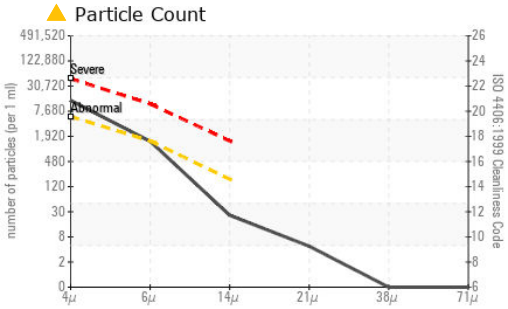
CONTAMINATION

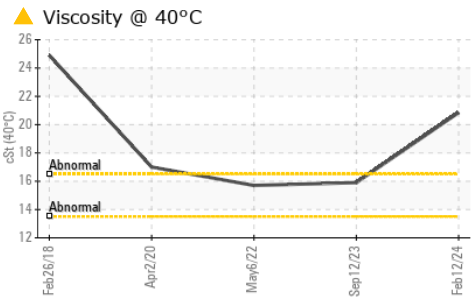
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

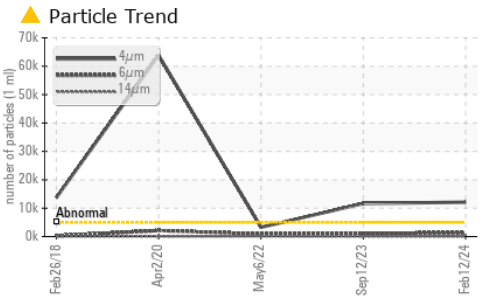
FLUID CONDITION

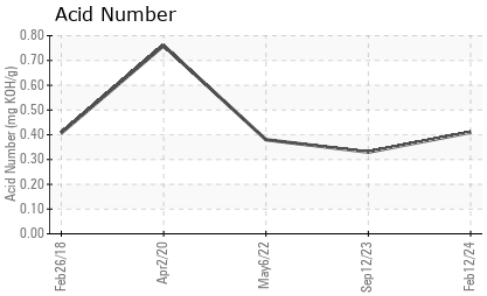
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

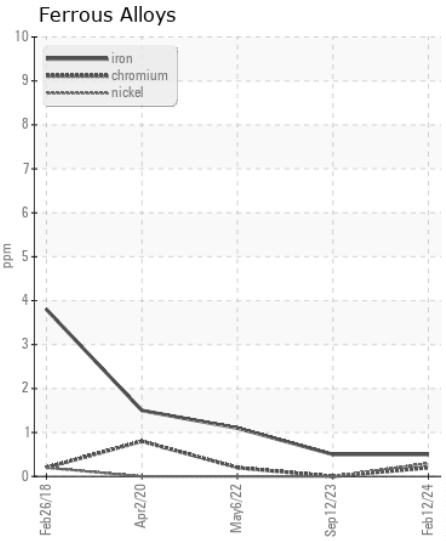
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RW0004932	RW0004672	RW0003142
Sample Date		Client Info		12 Feb 2024	12 Sep 2023	06 May 2022
Machine Age	hrs	Client Info		9162	9140	8555
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	<1	<1	1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	1	<1	1
Copper	ppm	ASTM D5185m	>75	6	7	6
Tin	ppm	ASTM D5185m	>10	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
Silicon	ppm	ASTM D5185m	>20	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 12118	▲ 11652	3262
Particles >6µm		ASTM D7647	>1300	1277	1190	904
Particles >14µm		ASTM D7647	>160	22	44	99
Particles >21µm		ASTM D7647	>40	4	11	20
Particles >38µm		ASTM D7647	>10	0	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/12	▲ 21/17/13	19/17/14
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		0	<1	<1
Boron	ppm	ASTM D5185m		2	0	6
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		21	0	5
Calcium	ppm	ASTM D5185m		92	65	93
Phosphorus	ppm	ASTM D5185m		306	332	352
Zinc	ppm	ASTM D5185m		436	387	370
Sulfur	ppm	ASTM D5185m		930	858	1013
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.33	0.38
Visc @ 40°C	cSt	ASTM D445		▲ 20.85	15.9	15.7

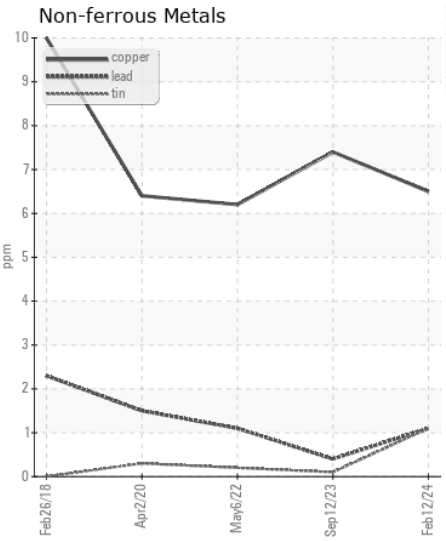


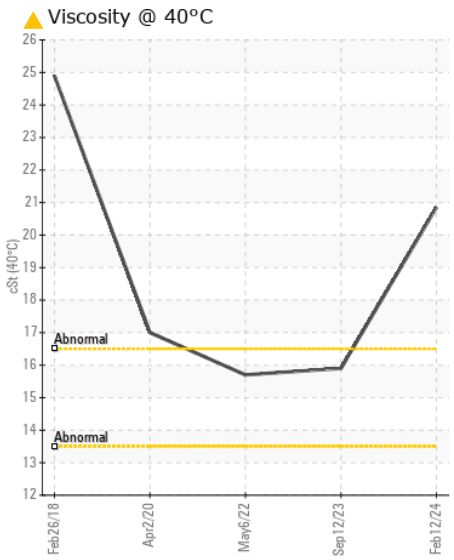


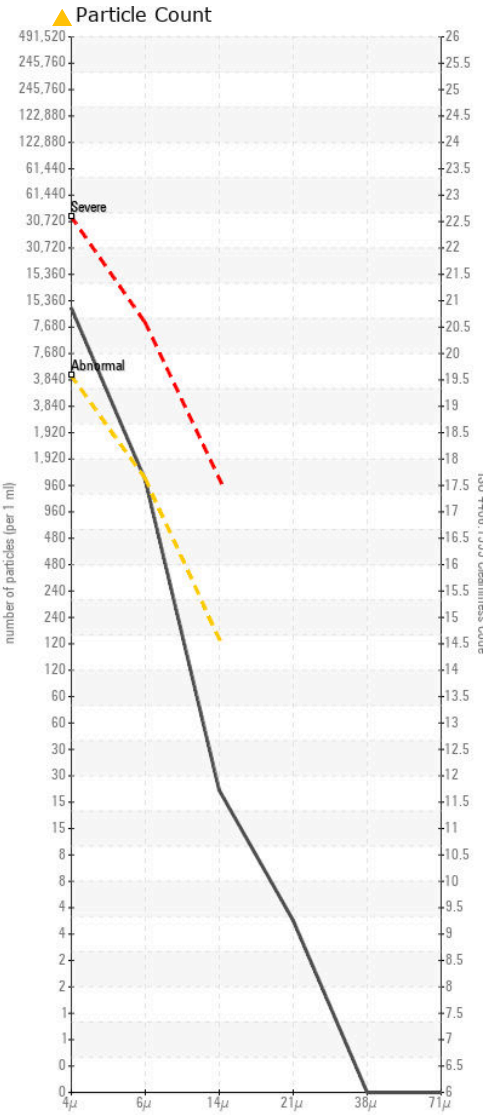


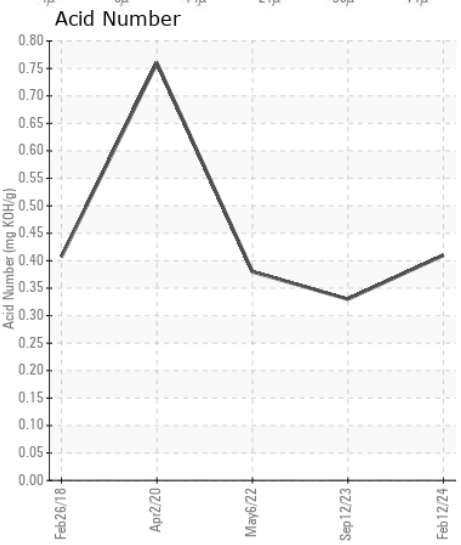












Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RW0004932	**Received**	: 23 Feb 2024
Lab Number	: 06098355	**Tested**	: 29 Feb 2024
Unique Number	: 10896585	**Diagnosed**	: 29 Feb 2024 - Jonathan Hester
Test Package	: MOB 2		

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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