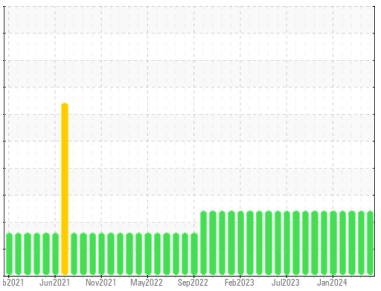
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
CRM54
Machine Id
CRM 54 CLEAN OIL TANK (S/N 16-2200-1026)
Component
Tank New (Unused) Oil
Fluid
{not provided} (--- QTS)

DIAGNOSIS

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

Wear
Bearing and/or gear wear is indicated.

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

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0044023**	RP0042069	RP0042177
Sample Date		Client Info		**03 Jun 2024**	09 May 2024	26 Mar 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ATTENTION**	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**16**	15	16
Iron	ppm	ASTM D5185m	>5	**327**	370	321
Chromium	ppm	ASTM D5185m	>5	**73**	81	74
Nickel	ppm	ASTM D5185m	>5	**21**	23	20
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>5	**<1**	0	<1
Lead	ppm	ASTM D5185m	>5	**0**	<1	<1
Copper	ppm	ASTM D5185m	>5	**84**	88	86
Tin	ppm	ASTM D5185m	>5	**<1**	0	1
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

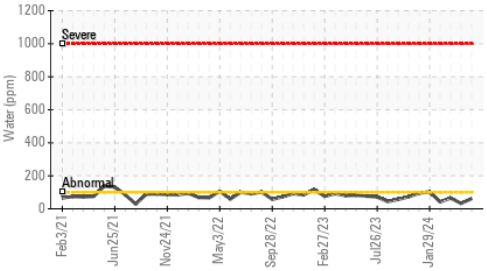
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**1**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	2	2
Manganese	ppm	ASTM D5185m		**20**	22	20
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**8**	8	7
Phosphorus	ppm	ASTM D5185m		**1398**	1380	1248
Zinc	ppm	ASTM D5185m		**36**	45	37

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**6**	6	4
Sodium	ppm	ASTM D5185m		**3**	2	3
Potassium	ppm	ASTM D5185m	>20	**3**	<1	<1
Water	%	ASTM D6304		**0.006**	0.003	0.006
ppm Water	ppm	ASTM D6304		**62**	33	65

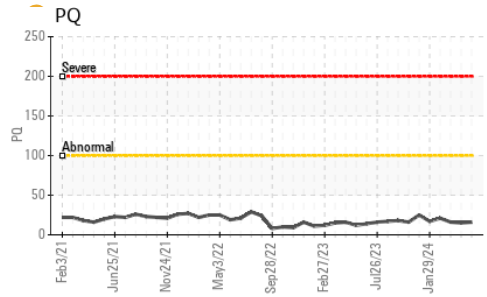
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.409**	0.28	0.303

OIL ANALYSIS REPORT

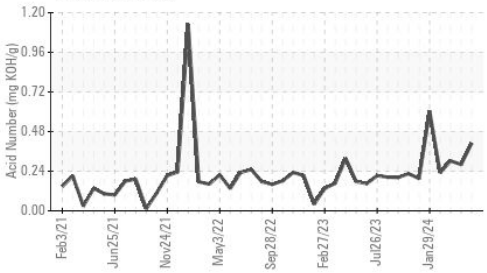
Water (KF)



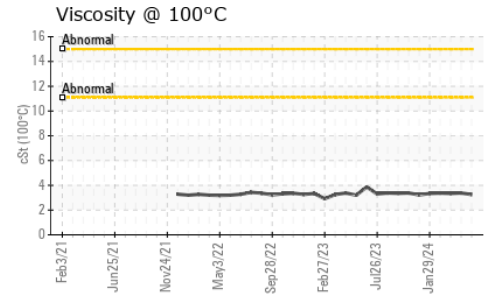
PQ



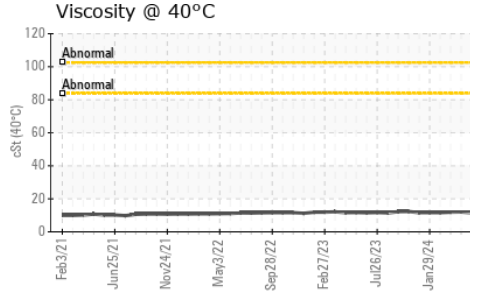
Acid Number



Viscosity @ 100°C



Viscosity @ 40°C



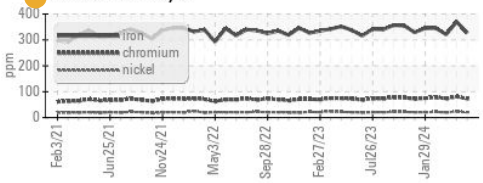
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**11.5**	12.00	11.9
Visc @ 100°C	cSt	ASTM D445		**3.25**	3.38	3.34
Viscosity Index (VI)	Scale	ASTM D2270		**161**	167	163

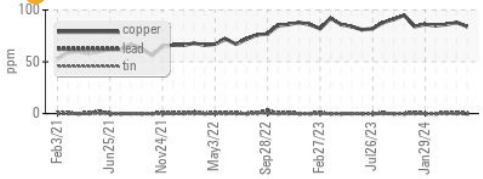
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

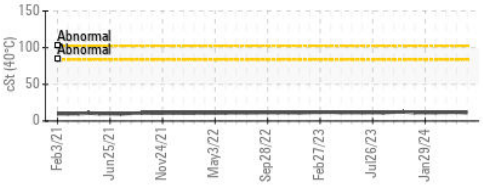
Ferrous Alloys



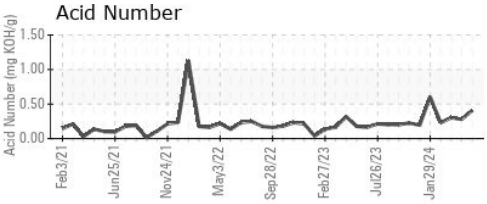
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044023
Lab Number : 06199713
Unique Number : 11061836
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, PrtCount, VI)

Received : 04 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 07 Jun 2024 - 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)

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Report Id: OUTCALAL [WUSCAR] 06199713 (Generated: 06/07/2024 22:44:32) Rev: 1

Submitted By: DALE ROBINSON