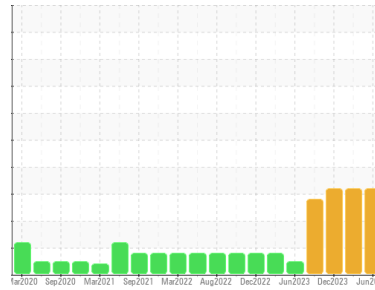




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CMAR_U4 CMAR_U4_M4
 Component
Non-Drive End Bearing
 Fluid
ROYAL PURPLE SYNFILM GT 32 (15 GAL)

DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
The lead level is abnormal. All other component wear rates are normal.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0043879	RP0029029	RP0021297
Sample Date	Client Info	28 Jun 2024	20 Mar 2024	27 Dec 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	12	17	11
Chromium	ppm	ASTM D5185m >20	0	<1	<1
Nickel	ppm	ASTM D5185m >20	0	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	2	4	2
Lead	ppm	ASTM D5185m >20	▲ 43	▲ 56	▲ 40
Copper	ppm	ASTM D5185m >20	6	9	7
Tin	ppm	ASTM D5185m >20	4	7	5
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	<1	2	1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	9	12	9
Barium	ppm	ASTM D5185m	0	1	<1
Molybdenum	ppm	ASTM D5185m	● 50	● 71	● 52
Manganese	ppm	ASTM D5185m	1	3	2
Magnesium	ppm	ASTM D5185m	● 169	● 247	● 183
Calcium	ppm	ASTM D5185m	● 264	● 386	● 273
Phosphorus	ppm	ASTM D5185m	● 167	● 248	● 175
Zinc	ppm	ASTM D5185m	● 162	● 245	● 177

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	2	5	1
Sodium	ppm	ASTM D5185m	3	3	4
Potassium	ppm	ASTM D5185m >20	2	2	0
Water	%	ASTM D6304 >0.05	0.048	0.018	0.038
ppm Water	ppm	ASTM D6304 >500	488	183	384

FLUID DEGRADATION

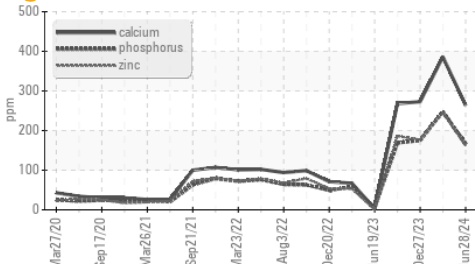
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.52	0.482	0.45

VISUAL

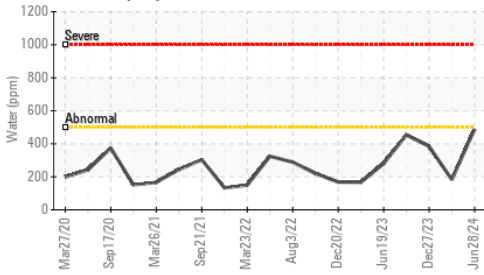
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.05	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

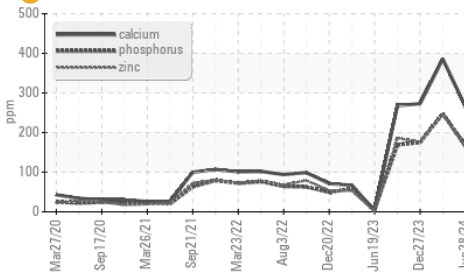
Additives



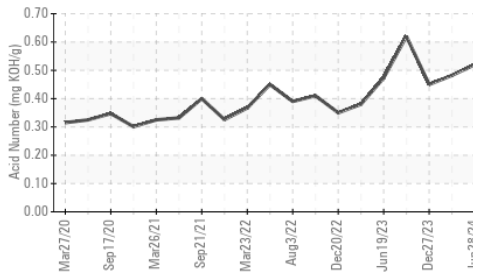
Water (KF)



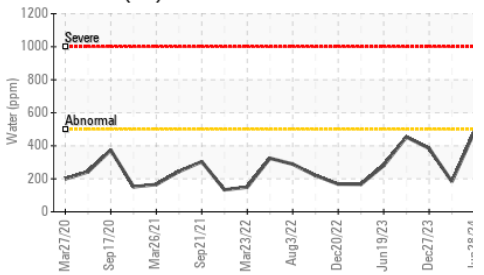
Additives



Acid Number



Water (KF)



FLUID PROPERTIES

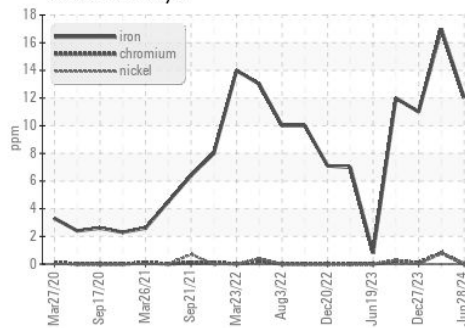
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 32	40.0	39.7	41.0

SAMPLE IMAGES

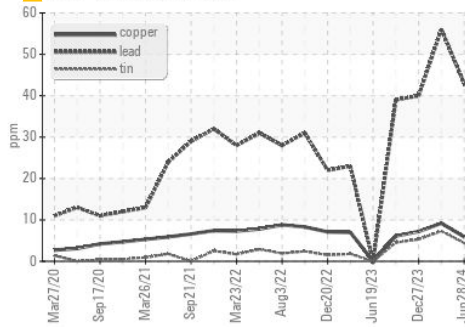
method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS

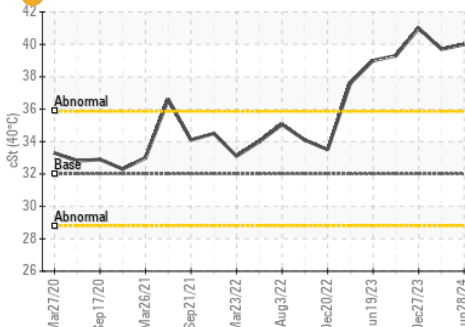
Ferrous Alloys



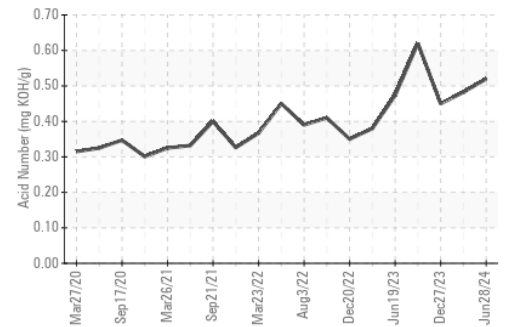
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0043879
Lab Number : 06236138
Unique Number : 11124972
Test Package : IND 2

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 17 Jul 2024 - Don Baldrige

ENERGY TRANSFER - MARYSVILLE
 250 MURPHY DRIVE
 ST. CLAIR, MI
 US 48079
 Contact: SCOTT VERHELLE

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)

T: (313)580-0267

F: