



Machine Id
MARLEY COOLING TOWER 4

Component
Gearbox

Fluid
GEAR OIL ISO 150 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

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	PC0077133	---	---
Sample Date	Client Info	14 Sep 2023	---	---
Machine Age	yrs Client Info	0	---	---
Oil Age	yrs Client Info	1	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >200	2	---	---
Chromium	ppm ASTM D5185(m) >10	0	---	---
Nickel	ppm ASTM D5185(m) >10	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >25	0	---	---
Lead	ppm ASTM D5185(m) >50	2	---	---
Copper	ppm ASTM D5185(m) >200	13	---	---
Tin	ppm ASTM D5185(m) >10	0	---	---
Antimony	ppm ASTM D5185(m) >5	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm ASTM D5185(m) 50	<1	---	---
Barium	ppm ASTM D5185(m) 15	<1	---	---
Molybdenum	ppm ASTM D5185(m) 15	0	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m) 50	<1	---	---
Calcium	ppm ASTM D5185(m) 50	23	---	---
Phosphorus	ppm ASTM D5185(m) 350	699	---	---
Zinc	ppm ASTM D5185(m) 100	66	---	---
Sulfur	ppm ASTM D5185(m) 12500	1069	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

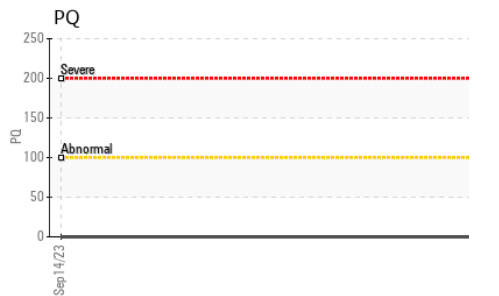
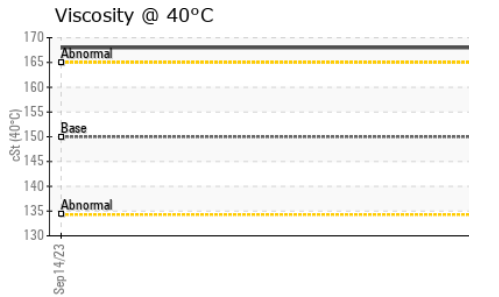
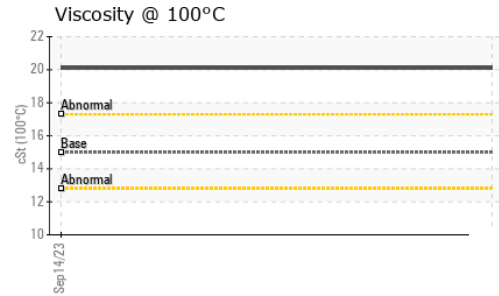
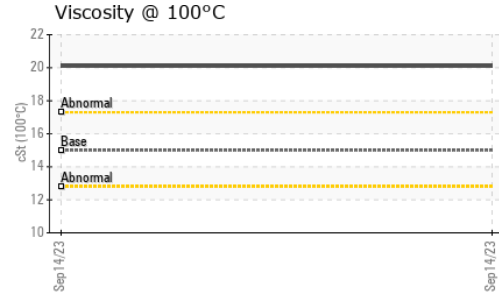
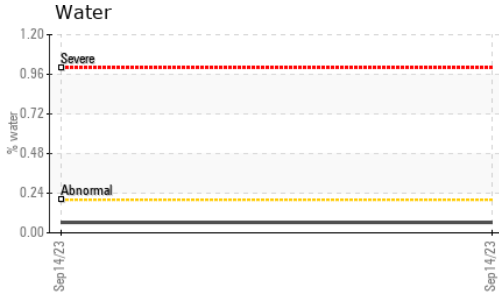
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm ASTM D5185(m) >50	11	---	---
Sodium	ppm ASTM D5185(m)	<1	---	---
Potassium	ppm ASTM D5185(m) >20	2	---	---
Water	% ASTM D6304* >0.2	0.063	---	---
ppm Water	ppm ASTM D6304* >2000	638.8	---	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g ASTM D974* 0.85	0.21	---	---
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OIL ANALYSIS REPORT

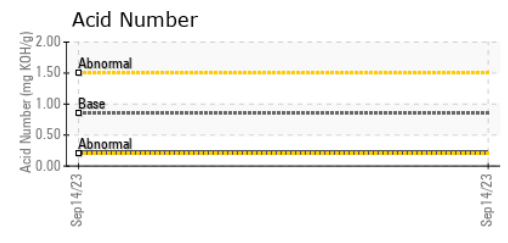
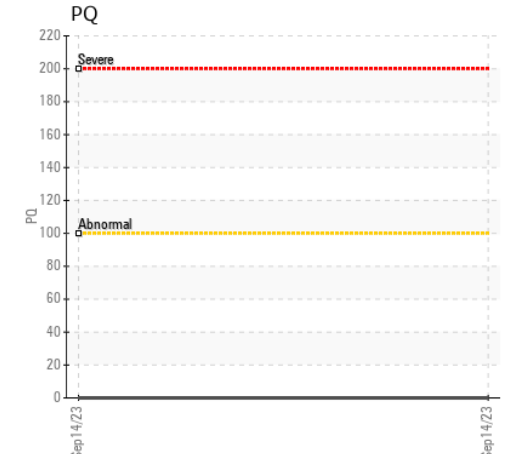
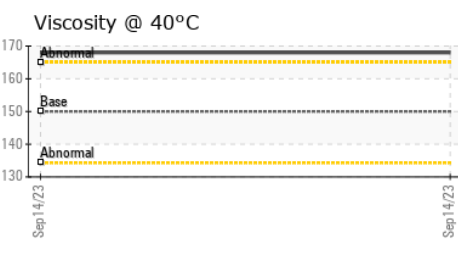
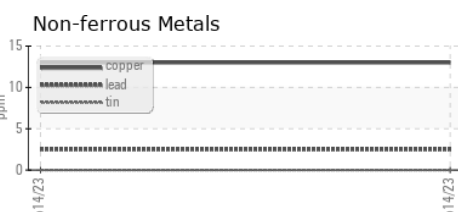
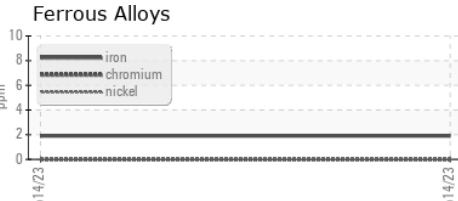


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	HAZY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	150	168	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	20.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	138	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCHER DANIELS MIDLAND COMPANY (ADM)
Sample No. : PC0077133 **Received** : 15 Sep 2023 5550 MAPLEWOOD DRIVE
Lab Number : **02582957** **Diagnosed** : 18 Sep 2023 WINDSOR, ON
Unique Number : 5644022 **Diagnostician** : Bill Quesnel CA N9C 0B9
Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI)
 Contact: Terry Summerfield
 terry.summerfield@adm.com
 T: (519)972-2324
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.