



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

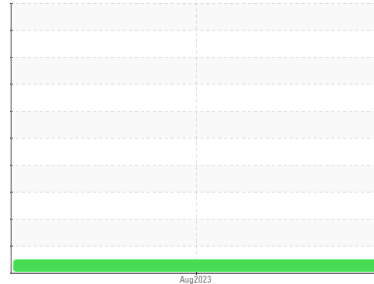


Area
[762866]

Machine Id
LCL-6

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)



DIAGNOSIS

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0692516	---	---
Sample Date	Client Info		24 Aug 2023	---	---
Machine Age	hrs	Client Info	6686	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Not Changed	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	3	---	---
Chromium	ppm	ASTM D5185m >10	<1	---	---
Nickel	ppm	ASTM D5185m >10	0	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >10	3	---	---
Lead	ppm	ASTM D5185m >20	<1	---	---
Copper	ppm	ASTM D5185m >20	2	---	---
Tin	ppm	ASTM D5185m >10	<1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	---	---
Barium	ppm	ASTM D5185m 5	0	---	---
Molybdenum	ppm	ASTM D5185m 5	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m 25	3	---	---
Calcium	ppm	ASTM D5185m 200	37	---	---
Phosphorus	ppm	ASTM D5185m 300	309	---	---
Zinc	ppm	ASTM D5185m 370	335	---	---
Sulfur	ppm	ASTM D5185m 2500	882	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	---	---
Sodium	ppm	ASTM D5185m	7	---	---
Potassium	ppm	ASTM D5185m >20	1	---	---

FLUID CLEANLINESS

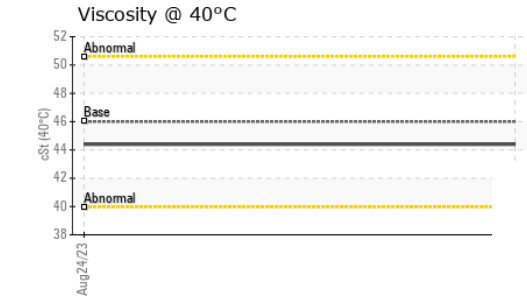
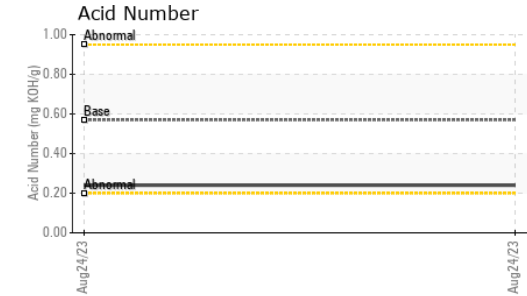
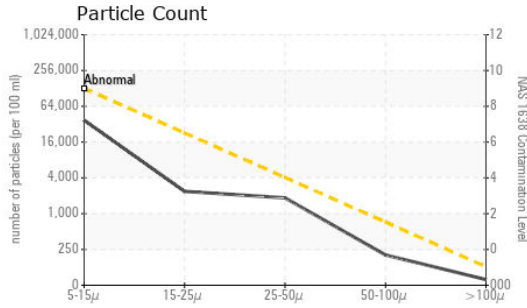
	method	limit/base	current	history1	history2
Particles 5-15µm	count	*NAS 1638 >128000	37381	---	---
Particles 15-25µm	count	*NAS 1638 >22800	2373	---	---
Particles 25-50µm	count	*NAS 1638 >4050	1845	---	---
Particles 50-100µm	count	*NAS 1638 >720	202	---	---
Particles >100µm	count	*NAS 1638 >128	40	---	---
NAS 1638	Class	*NAS 1638 >9	8	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.24	---	---



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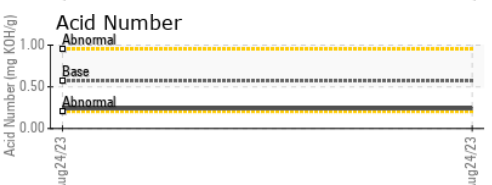
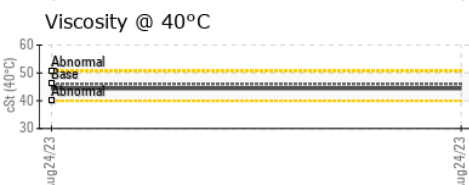
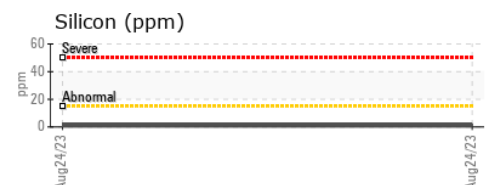
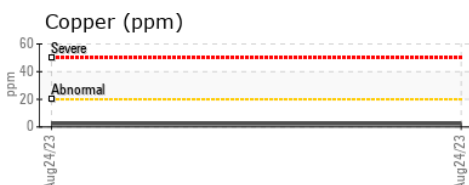
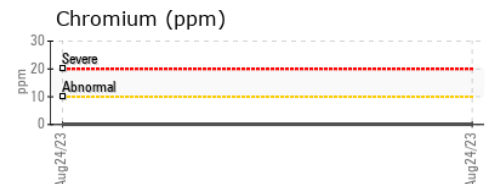
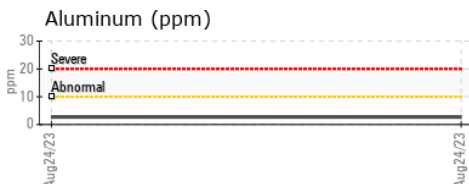
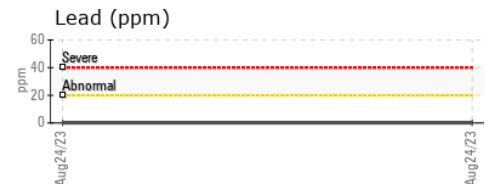
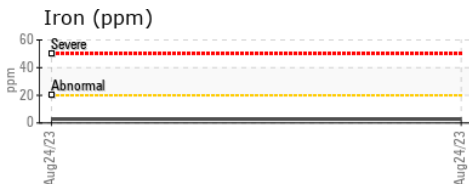
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.4	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0692516 **Received** : 26 Sep 2023
Lab Number : 05961739 **Diagnosed** : 28 Sep 2023
Unique Number : 10668290 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: PrtCountNAS)

AES USA - EVERETT
 3003 W CASINO RD BLDG 40-26 DR S2
 EVERETT, WA
 US 98204-1910
 Contact: TIM FELLER
 tim.feller@aes-gse.com
 T: (425)266-4649
 F:

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)