



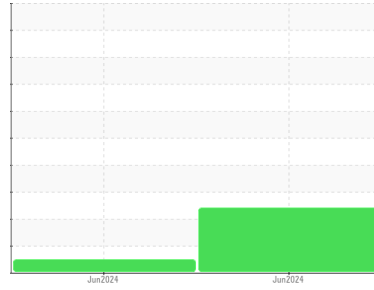
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area
MINING
Machine Id
ME-015 CATERPILLAR 773G JWS00457
Component
Rear Differential
Fluid
SHELL Spirax S4 CX 30 (--- GAL)



DIAGNOSIS

▲ Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 90W140 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0941653	WC0941653	---
Sample Date	Client Info		13 Jun 2024	10 Jun 2024	---
Machine Age	hrs	Client Info	61056	6156	---
Oil Age	hrs	Client Info	61056	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	33	---	---
Chromium	ppm	ASTM D5185(m)	>3	<1	---	---
Nickel	ppm	ASTM D5185(m)	>3	1	---	---
Titanium	ppm	ASTM D5185(m)	>2	<1	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>30	1	---	---
Lead	ppm	ASTM D5185(m)	>13	0	---	---
Copper	ppm	ASTM D5185(m)	>103	4	---	---
Tin	ppm	ASTM D5185(m)	>5	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

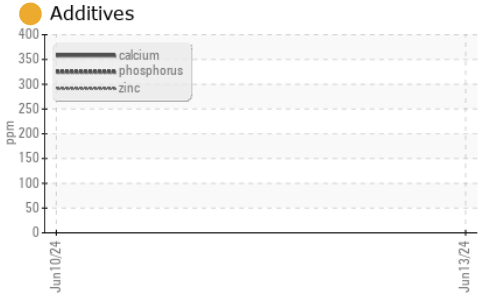
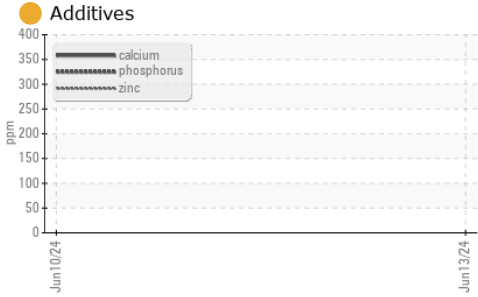
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	89	---	---
Barium	ppm	ASTM D5185(m)	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	6	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	2	---	---
Calcium	ppm	ASTM D5185(m)	312	---	---
Phosphorus	ppm	ASTM D5185(m)	303	---	---
Zinc	ppm	ASTM D5185(m)	12	---	---
Sulfur	ppm	ASTM D5185(m)	11262	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	17	---	---
Sodium	ppm	ASTM D5185(m)		8	---	---
Potassium	ppm	ASTM D5185(m)	>20	23	---	---



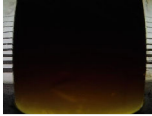

OIL ANALYSIS REPORT



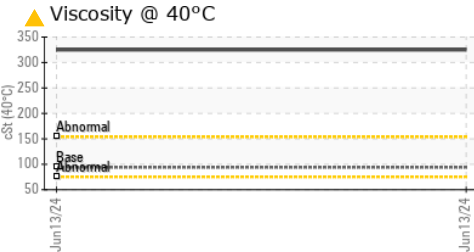
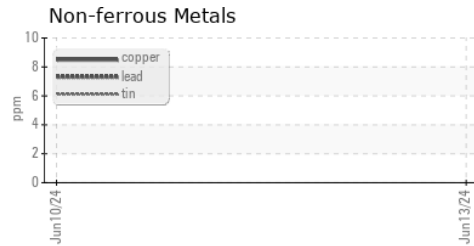
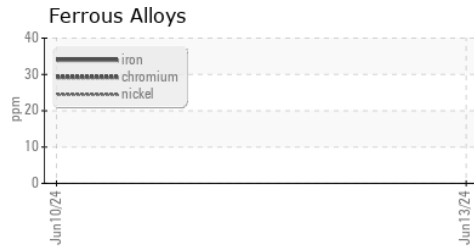
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	93.9 ▲ 325	---	---

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 - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941653 **Received** : 21 Jun 2024
Lab Number : **02643449** **Tested** : 24 Jun 2024
Unique Number : 5800988 **Diagnosed** : 24 Jun 2024 - Kevin Marson
Test Package : CONST

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 Contact: Dan Lyon
 dan.lyon@coviacorp.com
 T: (705)632-8904
 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.