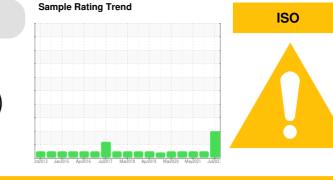


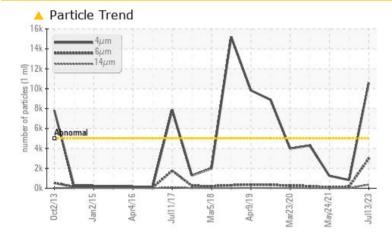
PROBLEM SUMMARY





Machine Id **CATERPILLAR 316EL 8379 (S/N DZW00149)** Component Hydraulic System Fluid NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647 >500	00 🔺 10588	828	1244
Particles >6µm	ASTM D7647 >130	00 🔺 2965	169	82
Particles >14µm	ASTM D7647 >160	0 🔺 357	21	7
Particles >21µm	ASTM D7647 >40	<u> </u>	6	3
Oil Cleanliness	ISO 4406 (c) >19/	17/14 🔺 21/19/16	17/15/12	17/14/10

Customer Id: TRANEW Sample No.: WC0816200 Lab Number: 05905389 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED A	RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description				
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Resample			?	We recommend an early resample to monitor this condition.				
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.				
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				

HISTORICAL DIAGNOSIS



11 Jan 2022 Diag: Don Baldridge

24 May 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

NODMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

09 Oct 2020 Diag: Don Baldridge

NORMAL

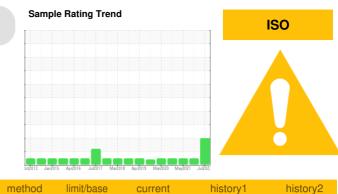


Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT





Machine Id CATERPILLAR 316EL 8379 (S/N DZW00149) Component Hydraulic System

SAMPLE INFORMATION

NOT GIVEN (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

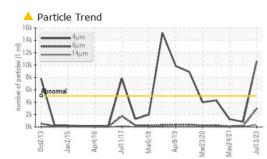
Fluid Condition

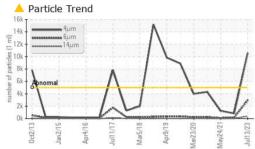
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

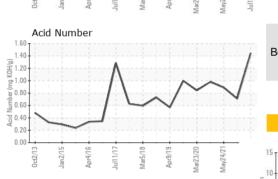
		methou	iiiiii/base	current	TIStory	Thistory 2
Sample Number		Client Info		WC0816200	WC0652155	WC0561389
Sample Date		Client Info		13 Jul 2023	11 Jan 2022	24 May 2021
Machine Age	hrs	Client Info		8202	7782	7297
Oil Age	hrs	Client Info		8202	7782	7297
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	11	10	9
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m	210	0	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	<1	1
Lead	ppm		>10	<1	<1	<1
Copper	ppm	ASTM D5185m		4	3	4
Tin	ppm		>10	0	<1	<1
Antimony	ppm	ASTM D5185m	210		0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm		limit/base	-		
		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		99	93	91
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		30	32	18
Calcium	ppm	ASTM D5185m		2949	2765	2694
Phosphorus	ppm	ASTM D5185m		1060	1006	1028
Zinc	ppm	ASTM D5185m		1172	1174	1135
Sulfur	ppm	ASTM D5185m		2810	2678	2134
CONTAMINANTS	6	method	limit/base		history1	history2
Silicon	ppm		>20	9	8	7
Sodium	ppm	ASTM D5185m		2	6	7
Potassium	ppm	ASTM D5185m	>20	3	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	828	1244
Particles >6µm		ASTM D7647	>1300	<u> </u>	169	82
Particles >14µm		ASTM D7647	>160	A 357	21	7
Particles >21µm		ASTM D7647	>40	<u> </u>	6	3
Particles >38µm		ASTM D7647	>10	7	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	1 /19/16	17/15/12	17/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.443	0.709	0.890
	5 0			-		

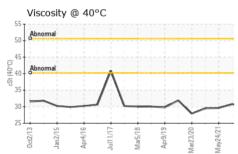


OIL ANALYSIS REPORT



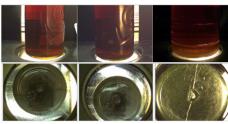




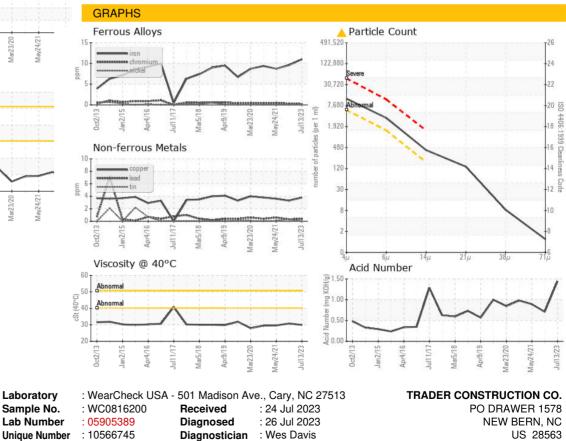


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		29.9	30.8	29.6
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom



 Certificate L2367
 Test Package
 : CONST

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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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