



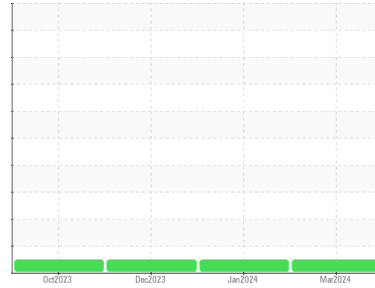
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CATERPILLAR R1600H SCP222
 Component
Rear Differential
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- 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.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0902358	WC0886121	WC0883809
Sample Date	Client Info		11 Mar 2024	30 Jan 2024	07 Dec 2023
Machine Age	hrs	Client Info	1077	828	0
Oil Age	hrs	Client Info	1077	828	0
Oil Changed	Client Info		Changed	Not Changd	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	50	50	56
Chromium	ppm	ASTM D5185(m)	>3	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	1	2	1
Lead	ppm	ASTM D5185(m)	>13	2	2	2
Copper	ppm	ASTM D5185(m)	>103	74	69	71
Tin	ppm	ASTM D5185(m)	>5	2	2	2
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	14	6	7
Barium	ppm	ASTM D5185(m)	0	5	5	7
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	1	1	1
Magnesium	ppm	ASTM D5185(m)	9	9	10	10
Calcium	ppm	ASTM D5185(m)	3114	2737	3086	3024
Phosphorus	ppm	ASTM D5185(m)	1099	1005	997	1010
Zinc	ppm	ASTM D5185(m)	1245	982	1115	1175
Sulfur	ppm	ASTM D5185(m)	7086	10456	8950	8617
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	3	5	4
Sodium	ppm	ASTM D5185(m)		4	4	5
Potassium	ppm	ASTM D5185(m)	>20	2	2	0

