

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



CATERPILLAR HOG 3300 121

Hydraulic System

PETRO CANADA 10W (--- GAL)

DIAGNOSIS Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this

condition.

The iron level is severe. The aluminum level is severe.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

(GAL)		Ju	n2023	Sep2023 Nov2		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868139	WC0822241	WC0822336
Sample Date		Client Info		01 Nov 2023	22 Sep 2023	20 Jun 2023
Machine Age	hrs	Client Info		9229	8970	8475
Oil Age	hrs	Client Info		259	245	263
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	• 72	20	20
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	ම 30	2	3
Lead	ppm	ASTM D5185m	>10	1	<1	2
Copper	ppm	ASTM D5185m	>75	11	3	3
Tin	ppm	ASTM D5185m	>10	2	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<mark>/</mark> 63	103	98
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	7	7
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<u> </u>	47	57
Calcium	ppm	ASTM D5185m		<u> </u>	2949	3135
Phosphorus	ppm	ASTM D5185m		<u> </u>	996	1096
Zinc	ppm	ASTM D5185m		<u> </u>	1244	1396
Sulfur	ppm	ASTM D5185m		1639	3459	3882
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	9	11
Sodium	ppm	ASTM D5185m		5	0	5
Potassium	ppm	ASTM D5185m	>20	2	2	2
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



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