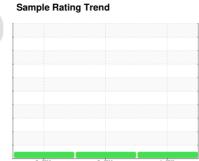


OIL ANALYSIS REPORT









CATERPILLAR 3499

Component

Hydraulic System

Fluid

CHEVRON HYDRAULIC OIL AW ISO 46 (30 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 component. The amount and size of particulates present in the system is acceptable.

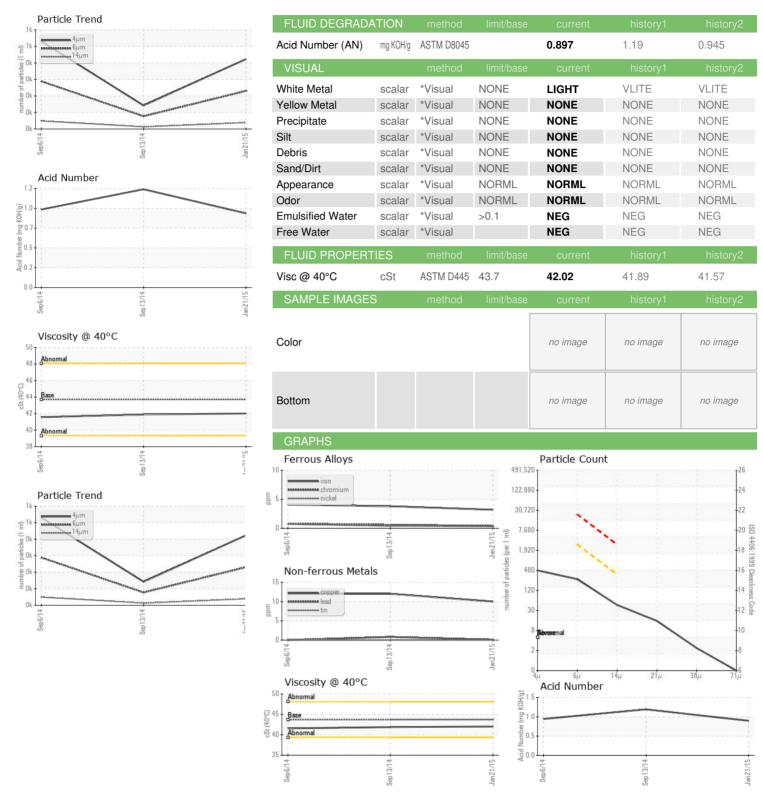
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

OIL AW ISO 46 (3	0 GAL)	Sej	2014	Sep2014 Jan201	5	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTKM2241489	PTKM2241485	PTKM2240191
Sample Date		Client Info		21 Jan 2015	13 Sep 2014	06 Sep 2014
Machine Age	hrs	Client Info		4995	3807	3678
Oil Age	hrs	Client Info		4928	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	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	3	4	4
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	10	12	12
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>10	0	0	0
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	6	7
Calcium		ASTM D5185m		173	172	182
	ppm			628	643	
Phosphorus Zinc	ppm	ASTM D5185m		828	818	648 840
Sulfur	ppm	ASTM D5185m ASTM D5185m		1315	1485	1536
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	3
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	3	4	10
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		423	142	531
Particles >6µm		ASTM D7647	>2500	230	77	289
Particles >14µm		ASTM D7647	>320	39	13	49
Particles >21µm		ASTM D7647	>80	13	4	16
Particles >38µm		ASTM D7647	>20	2	0	2
				0	0	0
Particles >71µm		ASTM D7647				
Oil Cleanliness		ISO 4406 (c)	>18/15	16/15/12	14/13/11	16/15/13



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 03676907 Unique Number : 6899895 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PTKM2241489 Received **Tested**

Diagnosed

: 04 Feb 2015

: 05 Feb 2015 : 05 Feb 2015 - Jonathan Hester

6770 S DAWSON CIRCLE SUITE 300 CENTENNIAL, CO US 80112-4224 Contact: MR JONES

carj04@juno.com T: (720)377-2171 F: (720)377-2172

Certificate 12367

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

 st - 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)

Report Id: MRBCEN [WUSCAR] 03676907 (Generated: 04/26/2024 09:12:43) Rev: 1

Contact/Location: MR JONES ? - MRBCEN

MR BULTS