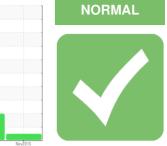


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **CATERPILLAR 3499** Component Hydraulic System

Fluid CHEVRON (30 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTKM2261222	PTKM2241482	PTKM2241489
Sample Date		Client Info		26 Nov 2015	21 May 2015	21 Jan 2015
Machine Age	hrs	Client Info		0	6061	4995
Oil Age	hrs	Client Info		0	221	4928
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	٧	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	4	4	3
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>75	12	11	10
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		4	3	0
Calcium	ppm	ASTM D5185m		144	160	173
Phosphorus	ppm	ASTM D5185m		479	548	628
Zinc	ppm	ASTM D5185m		660	722	828
Sulfur	ppm	ASTM D5185m		1183	1312	1315
CONTAMINANTS		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	2	<1	3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		201	12005	423
Particles >6µm		ASTM D7647	>2500	109	6 539	230
Particles >14µm		ASTM D7647	>320	18	1 114	39
Particles >21µm		ASTM D7647	>80	6	A 376	13
Particles >38µm		ASTM D7647		0	<mark>▲</mark> 58	2

ASTM D7647 >4

ISO 4406 (c) >18/15

Particles >71µm

Oil Cleanliness

0

16/15/12

5

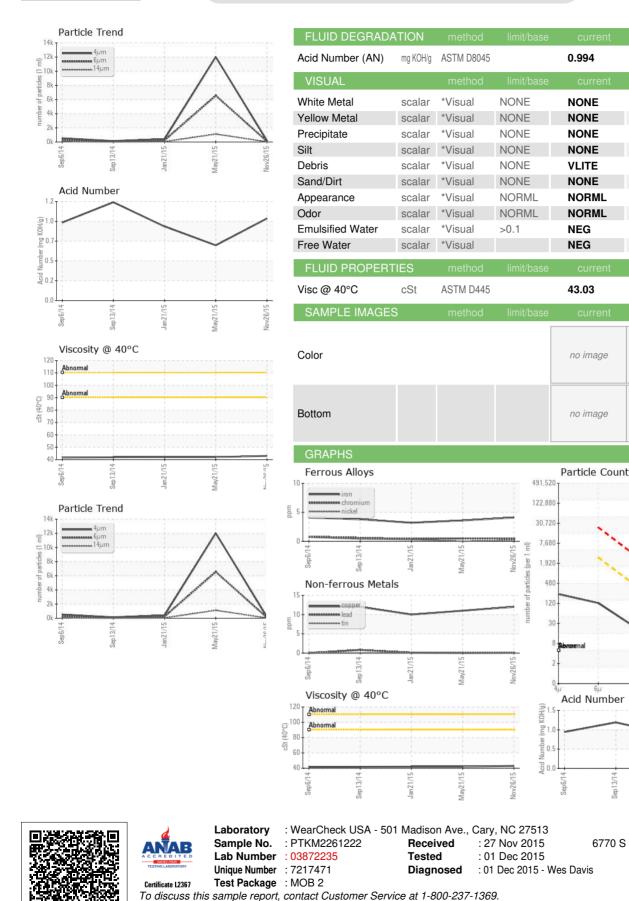
▲ 21/20/17

0

15/14/11



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

MR BULTS 6770 S DAWSON CIRCLE SUITE 300 CENTENNIAL, CO US 80112-4224 Contact: MR JONES carj04@juno.com T: (720)377-2171 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (720)377-2172

May21/15

21

Jan21/15

Sep 13/14

Report Id: MRBCEN [WUSCAR] 03872235 (Generated: 04/26/2024 09:13:01) Rev: 1

Contact/Location: MR JONES ? - MRBCEN

0.669

LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

42.02

no image

no image

0.897

LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

42.02

no image

no image

20 8

4406:

19999

9

14

71/30/15