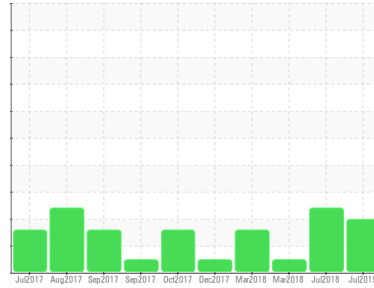




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
COLOR PLUS
 Machine Id
CP2 ONLOADER

Component
Hydraulic System
 Fluid
MOBIL DTE 10 EXCEL 46 (20 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0351499	WCI2322716	WCI2319276
Sample Date	Client Info		02 Jul 2019	12 Jul 2018	12 Mar 2018
Machine Age	mths	Client Info	11	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>45	14	19	16
Iron	ppm	ASTM D5185m	>30	9	11
Chromium	ppm	ASTM D5185m	>2	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m		<1	0
Aluminum	ppm	ASTM D5185m	>2	<1	0
Lead	ppm	ASTM D5185m	>10	1	1
Copper	ppm	ASTM D5185m	>25	29	37
Tin	ppm	ASTM D5185m	>20	<1	1
Antimony	ppm	ASTM D5185m		0	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1
Barium	ppm	ASTM D5185m		0	<1
Molybdenum	ppm	ASTM D5185m		<1	2
Manganese	ppm	ASTM D5185m		<1	<1
Magnesium	ppm	ASTM D5185m		23	<1
Calcium	ppm	ASTM D5185m		117	121
Phosphorus	ppm	ASTM D5185m		457	451
Zinc	ppm	ASTM D5185m		220	292
Sulfur	ppm	ASTM D5185m		3005	1331

CONTAMINANTS

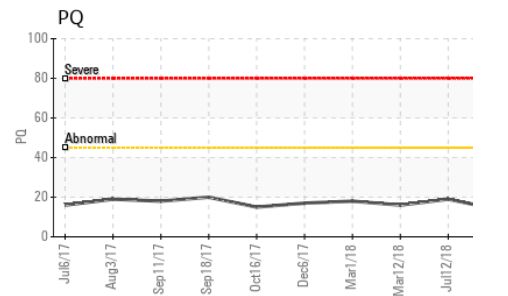
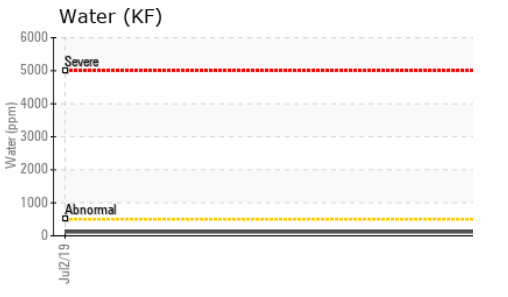
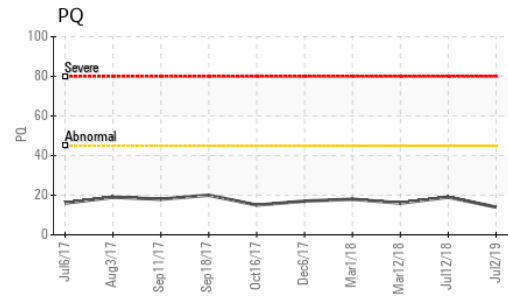
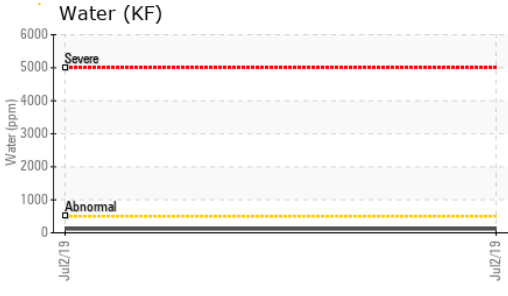
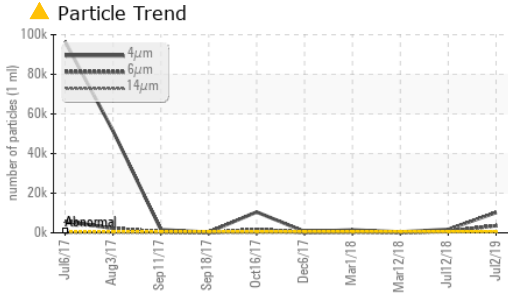
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	2
Sodium	ppm	ASTM D5185m		2	2
Potassium	ppm	ASTM D5185m	>20	<1	0
Water	%	ASTM D6304	>0.05	0.012	---
ppm Water	ppm	ASTM D6304	>500	120	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	▲ 10261	▲ 1732	469
Particles >6µm	ASTM D7647	>160	▲ 3599	▲ 822	137
Particles >14µm	ASTM D7647	>20	▲ 315	▲ 283	15
Particles >21µm	ASTM D7647	>4	▲ 86	▲ 165	5
Particles >38µm	ASTM D7647	>3	▲ 3	▲ 27	0
Particles >71µm	ASTM D7647	>3	0	▲ 2	0
Oil Cleanliness	ISO 4406 (c)	>16/14/11	▲ 21/19/15	▲ 18/17/15	16/14/11



OIL ANALYSIS REPORT

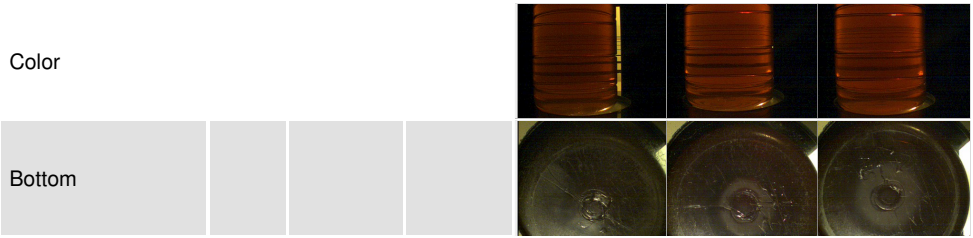


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.242	0.338	0.372

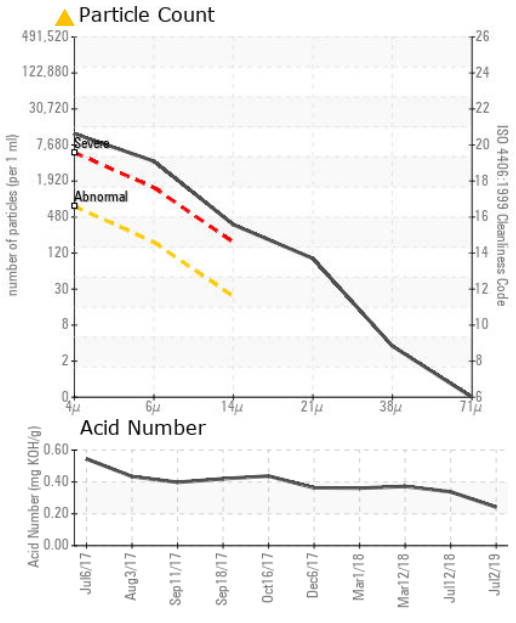
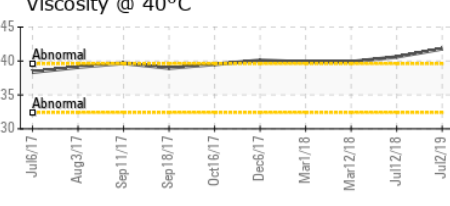
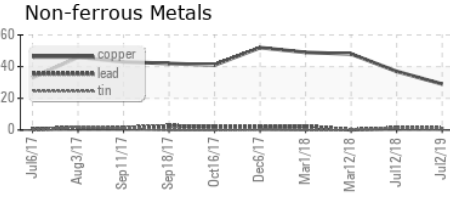
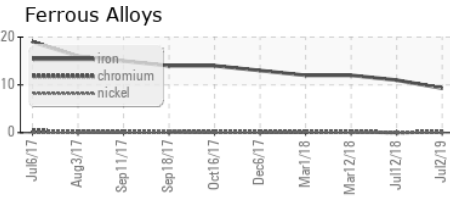
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		41.8	40.6	39.89

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0351499 **Received** : 09 Jul 2019
Lab Number : **04750793** **Diagnosed** : 10 Jul 2019
Unique Number : 8658506 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PQ)

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 US 24031
 Contact: ANDY PORTER
 andrew.porter@jameshardie.com
 T:
 F:

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