



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
MCAVOY MCDOUGAL

Machine Id
786 786

Component
Hydraulic System

Fluid
MOBIL HYDRAULIC 10W (125 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956034	WC0449106	WC0379532
Sample Date		Client Info		10 Jul 2024	03 Mar 2020	13 Aug 2019
Machine Age	hrs	Client Info		2101	1538	1075
Oil Age	hrs	Client Info		563	1226	763
Filter Age	hrs	Client Info		563	463	763
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<1	2	2
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

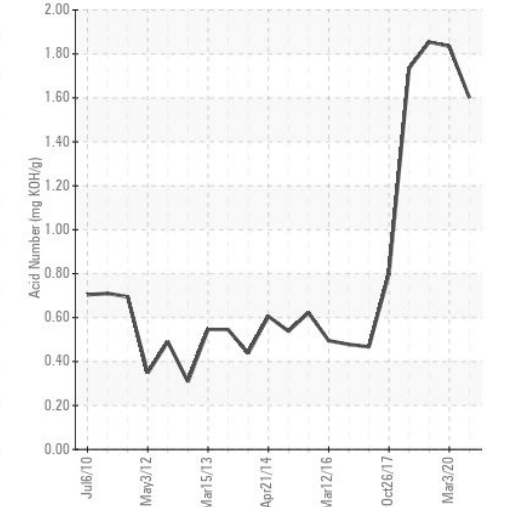
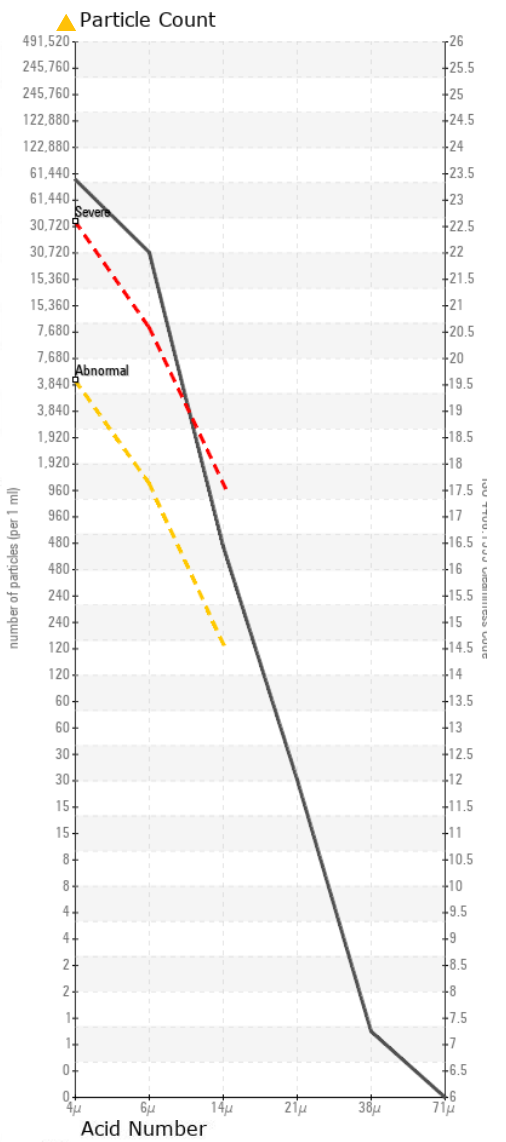
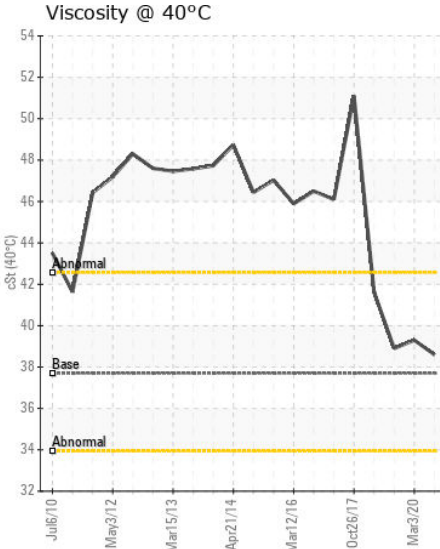
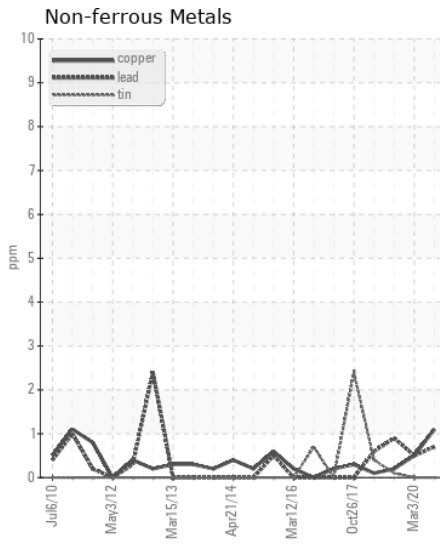
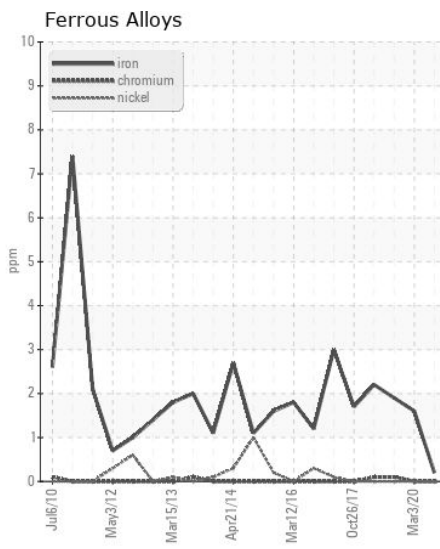
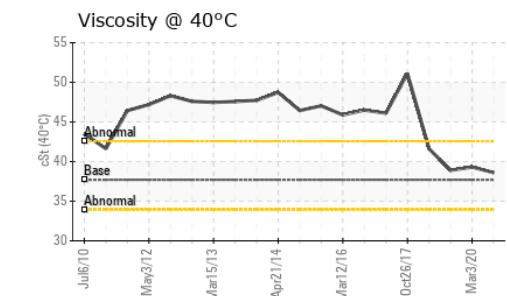
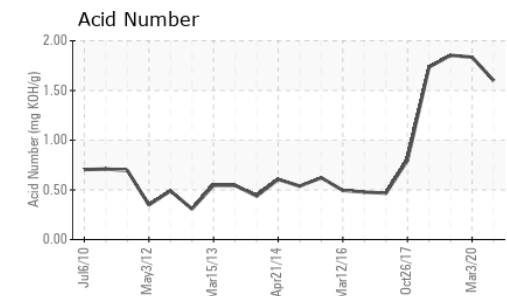
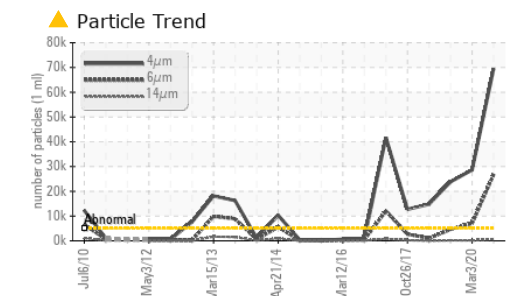
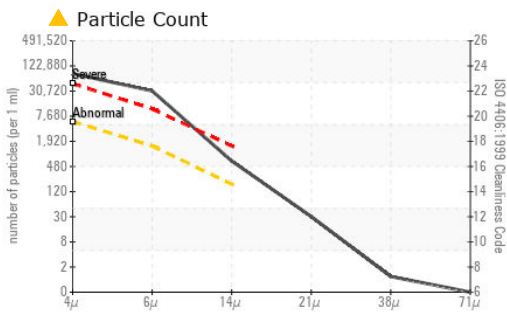
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 69524	▲ 28627	▲ 23839
Particles >6µm		ASTM D7647	>1300	▲ 26802	▲ 7044	▲ 4657
Particles >14µm		ASTM D7647	>160	▲ 572	144	▲ 210
Particles >21µm		ASTM D7647	>40	27	16	31
Particles >38µm		ASTM D7647	>10	1	2	3
Particles >71µm		ASTM D7647	>3	0	0	3
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/22/16	▲ 22/20/14	▲ 22/19/15
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	<1	1
Boron	ppm	ASTM D5185m		<1	9	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	1	1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		640	717	690
Calcium	ppm	ASTM D5185m		188	426	344
Phosphorus	ppm	ASTM D5185m		987	1089	1050
Zinc	ppm	ASTM D5185m		1133	1300	1164
Sulfur	ppm	ASTM D5185m		6974	6067	6765
Acid Number (AN)	mg KOH/g	ASTM D8045		1.60	1.835	1.854
Visc @ 40°C	cSt	ASTM D445	37.7	38.6	39.3	38.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0956034

Lab Number : 06234762

Unique Number : 11123596

Test Package : CONST

Received : 12 Jul 2024

Tested : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Don Baldridge

CAROLINA SUNROCK

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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)