



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HYD PUMP
Component
Hydraulic System
Fluid
{not provided} (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IB0000326	WCI2327494	WCI2288417
Sample Date		Client Info		15 Nov 2023	11 Nov 2018	08 Nov 2016
Machine Age	yrs	Client Info		0	0	18
Oil Age	yrs	Client Info		0	3	18
Filter Age	yrs	Client Info		0	0	18
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	7	6	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>20	0	2	0
Copper	ppm	ASTM D5185m	>20	12	7	4
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

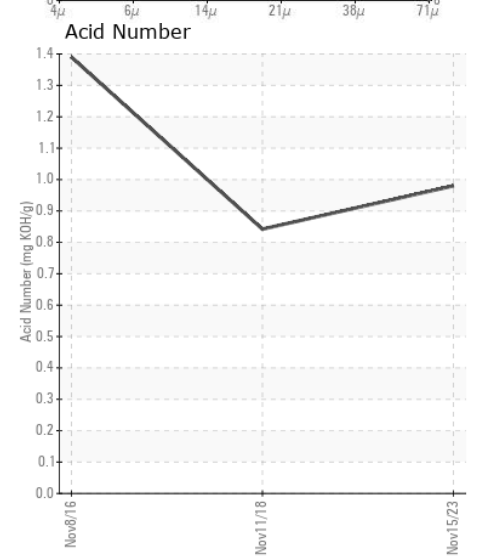
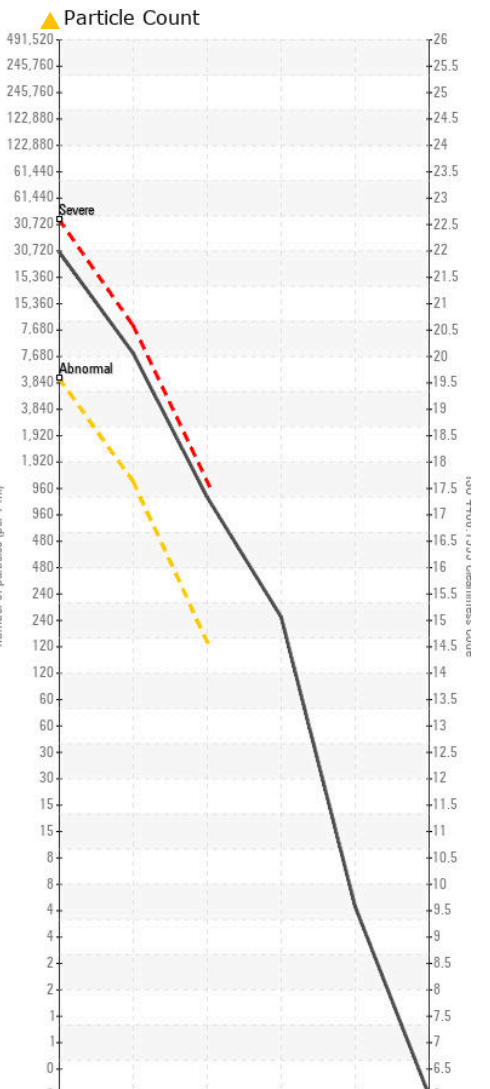
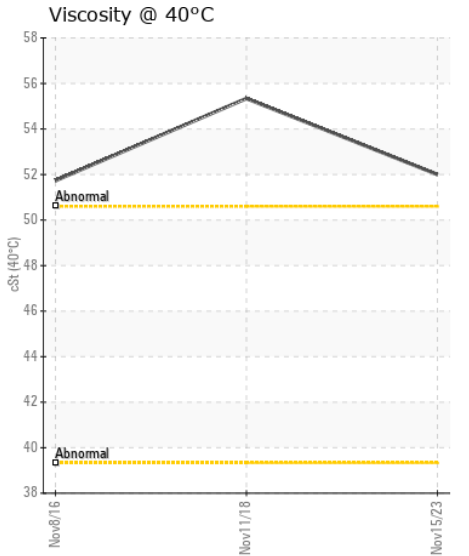
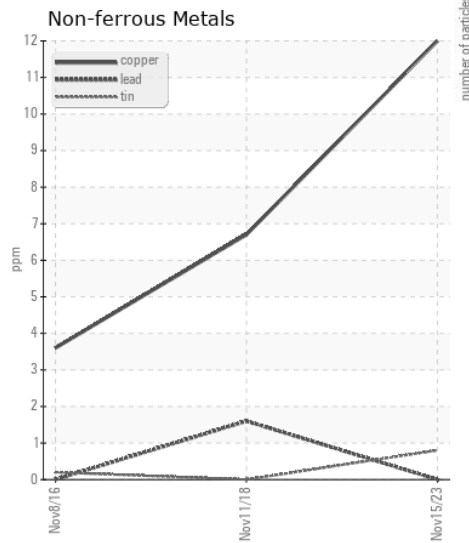
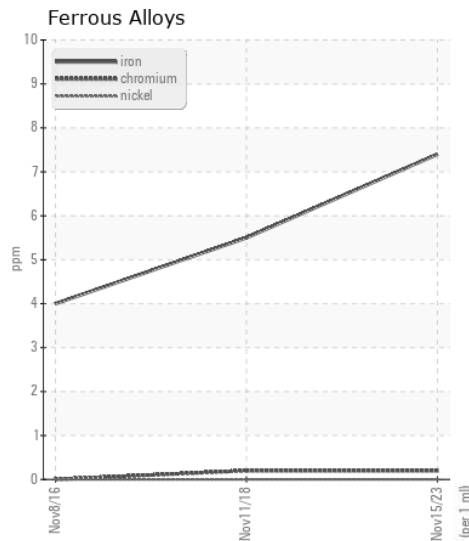
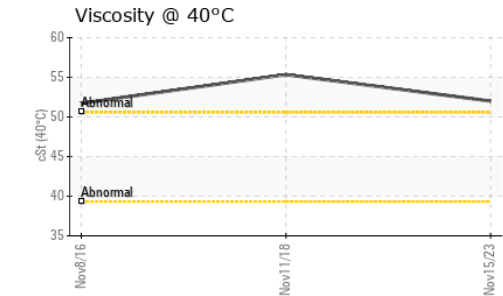
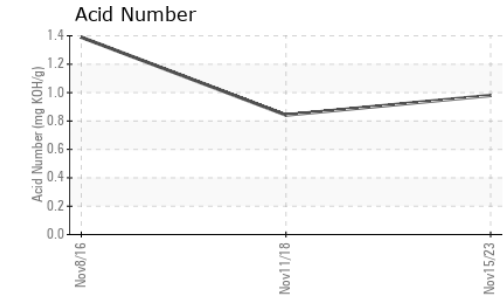
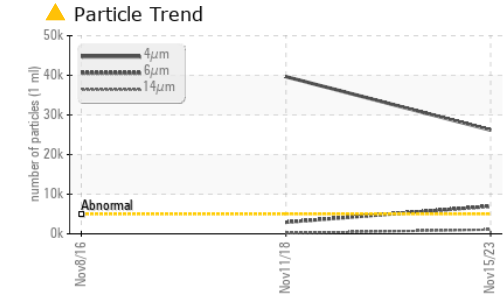
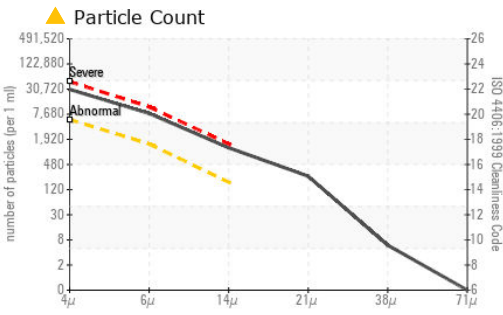
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	15	10	10
Potassium	ppm	ASTM D5185m	>20	6	5	2
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 26189	▲ 39662	---
Particles >6µm		ASTM D7647	>1300	▲ 6960	▲ 2926	---
Particles >14µm		ASTM D7647	>160	▲ 1060	▲ 176	---
Particles >21µm		ASTM D7647	>40	▲ 221	▲ 56	---
Particles >38µm		ASTM D7647	>10	5	4	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/20/17	▲ 22/19/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	2
Boron	ppm	ASTM D5185m		60	67	74
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	3	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		22	20	14
Calcium	ppm	ASTM D5185m		2205	2400	2438
Phosphorus	ppm	ASTM D5185m		865	904	916
Zinc	ppm	ASTM D5185m		996	1038	1005
Sulfur	ppm	ASTM D5185m		3517	2876	3872
Acid Number (AN)	mg KOH/g	ASTM D8045		0.98	0.842	1.39
Visc @ 40°C	cSt	ASTM D445		52.0	55.34	51.73



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IB0000326
Lab Number : 06016343
Unique Number : 10755487
Test Package : IND 2
Received : 24 Nov 2023
Tested : 27 Nov 2023
Diagnosed : 28 Nov 2023 - Jonathan Hester

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)

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