



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
5228 5228
Component
Hydraulic System
Fluid
SAE 10W (37 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937789	WC0902919	WC0861631
Sample Date		Client Info		17 May 2024	07 Mar 2024	27 Nov 2023
Machine Age	hrs	Client Info		5031	4486	3795
Oil Age	hrs	Client Info		2479	1934	1243
Filter Age	hrs	Client Info		2479	1934	1243
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	19	17	13
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	4	2
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>75	5	5	5
Tin	ppm	ASTM D5185m	>10	<1	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

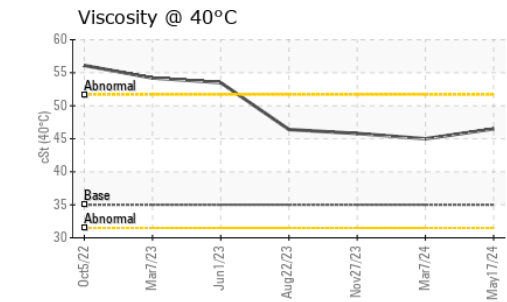
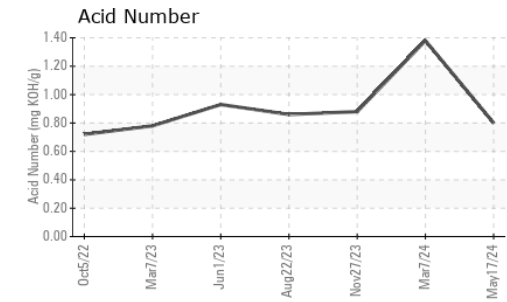
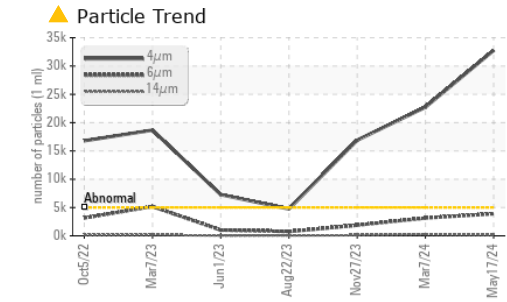
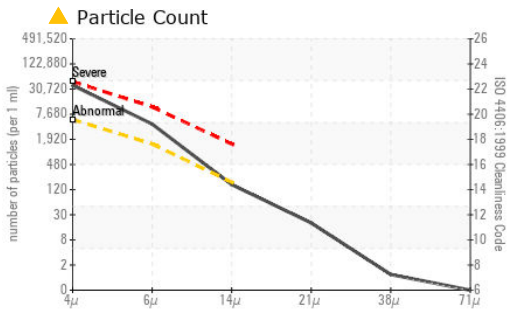
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	12	9	9
Potassium	ppm	ASTM D5185m	>20	<1	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 32760	▲ 22727	▲ 16892
Particles >6µm		ASTM D7647	>1300	▲ 3891	▲ 3140	▲ 1872
Particles >14µm		ASTM D7647	>160	140	▲ 241	108
Particles >21µm		ASTM D7647	>40	17	▲ 48	26
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/14	▲ 22/19/15	▲ 21/18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		9	10	2
Boron	ppm	ASTM D5185m		1	2	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	2
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		308	289	326
Calcium	ppm	ASTM D5185m		128	66	105
Phosphorus	ppm	ASTM D5185m		867	773	795
Zinc	ppm	ASTM D5185m		1062	900	1080
Sulfur	ppm	ASTM D5185m		4319	3873	4063
Acid Number (AN)	mg KOH/g	ASTM D8045		0.80	1.38	0.88
Visc @ 40°C	cSt	ASTM D445	35.0	46.5	45.0	45.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937789
Lab Number : 06186007
Unique Number : 11042759
Test Package : CONST

Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Don Baldrige

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)

