



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Contracting
Machine Id
5205 5205
Component
Hydraulic System
Fluid
DIESEL ENGINE OIL SAE 15W40 (32 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919113	WC0740763	WC0630627
Sample Date		Client Info		24 Apr 2024	21 Sep 2022	06 Oct 2021
Machine Age	hrs	Client Info		5802	4613	3952
Oil Age	hrs	Client Info		1189	2570	1909
Filter Age	hrs	Client Info		1189	2570	1909
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	<1	8	7
Chromium	ppm	ASTM D5185m	>11	0	1	1
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>11	1	5	4
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>21	0	2	2
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

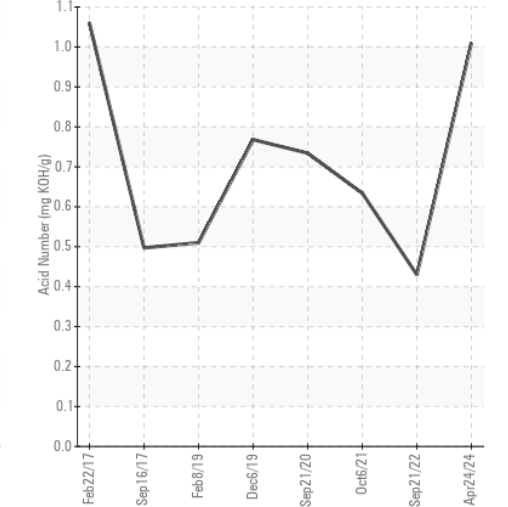
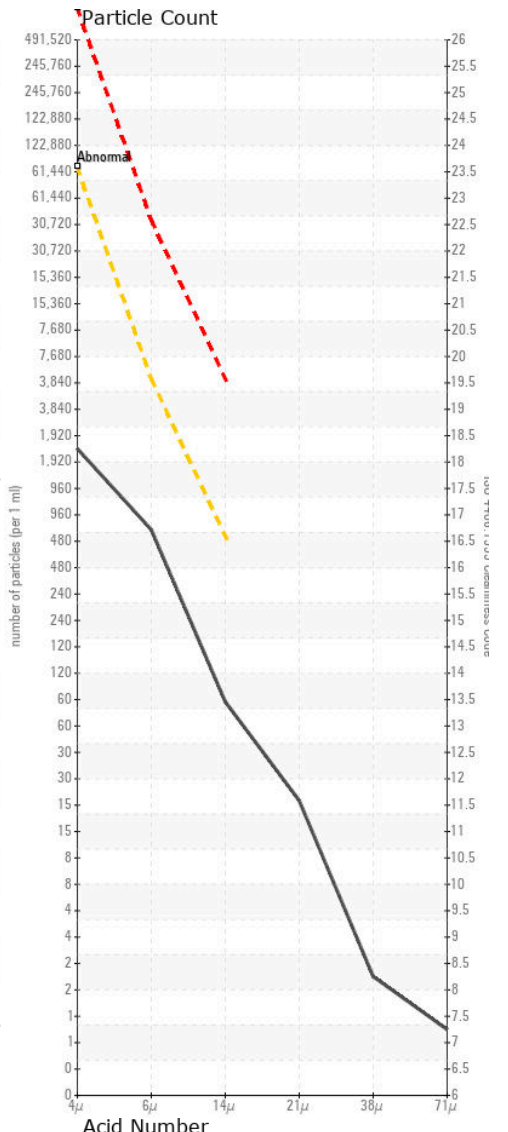
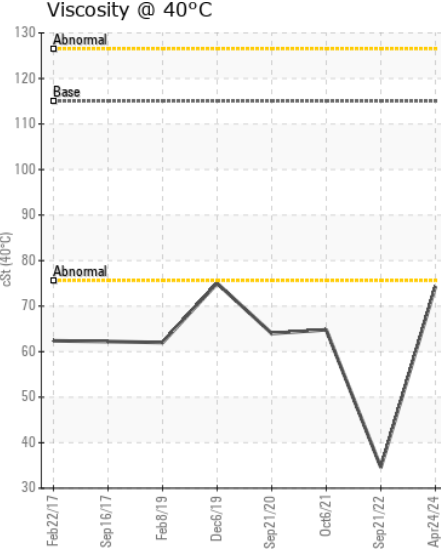
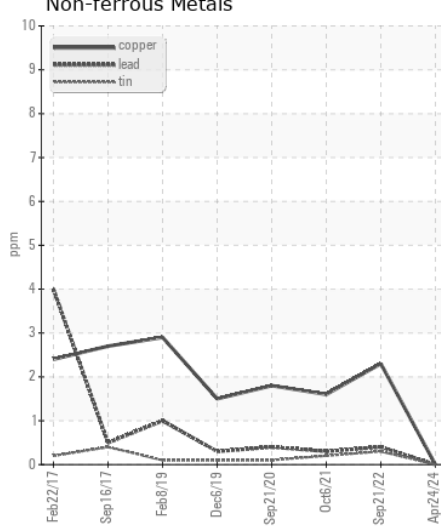
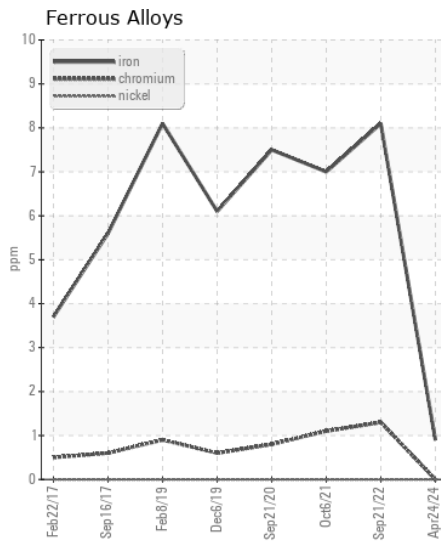
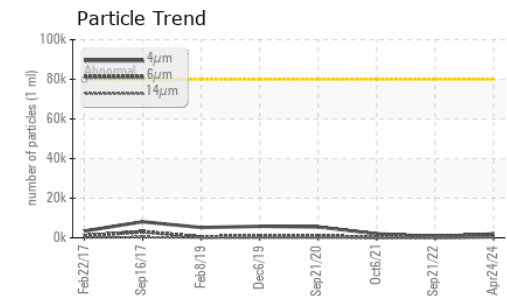
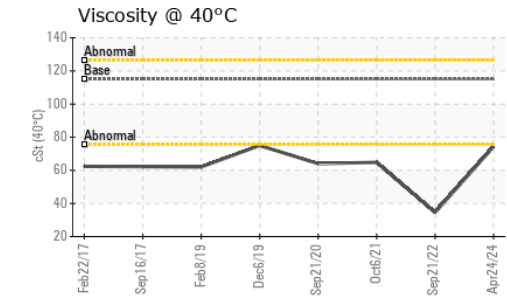
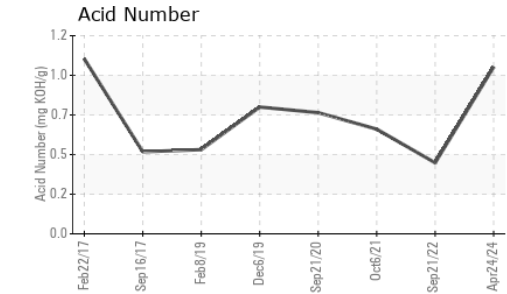
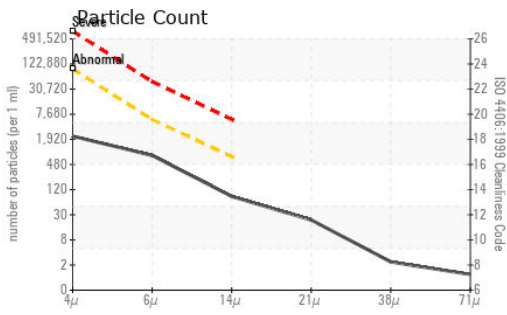
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	9	6	5
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2001	593	2079
Particles >6µm		ASTM D7647	>5000	693	131	162
Particles >14µm		ASTM D7647	>640	73	15	19
Particles >21µm		ASTM D7647	>160	20	2	8
Particles >38µm		ASTM D7647	>40	2	0	0
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/17/13	16/14/11	18/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.075	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	>158	5	8	8
Boron	ppm	ASTM D5185m	250	73	26	37
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	41	17	22
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	476	196	240
Calcium	ppm	ASTM D5185m	3000	1452	807	978
Phosphorus	ppm	ASTM D5185m	1150	733	525	621
Zinc	ppm	ASTM D5185m	1350	843	625	768
Sulfur	ppm	ASTM D5185m	4250	2965	1961	1955
Acid Number (AN)	mg KOH/g	ASTM D8045		1.01	0.43	0.634
Visc @ 40°C	cSt	ASTM D445	115	74.3	34.6	64.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919113
Lab Number : 06161341
Unique Number : 10996764
Test Package : CONST
Received : 26 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 30 Apr 2024 - Don Baldrige

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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)