



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
DELTA VICTOR 104 MANGUSTA
Machine Id
RF HYDRAULIC DV 104 CENTRAL HYDRAULICS
Component
Hydraulic System
Fluid
SHELL TELLUS S2 VX 46 (50 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Please test for water)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889201	WC0713632	---
Sample Date		Client Info		06 Jul 2024	09 Jul 2023	---
Machine Age	yrs	Client Info		1	1	---
Oil Age	yrs	Client Info		1	1	---
Filter Age	yrs	Client Info		1	1	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	0	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>20	4	16	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

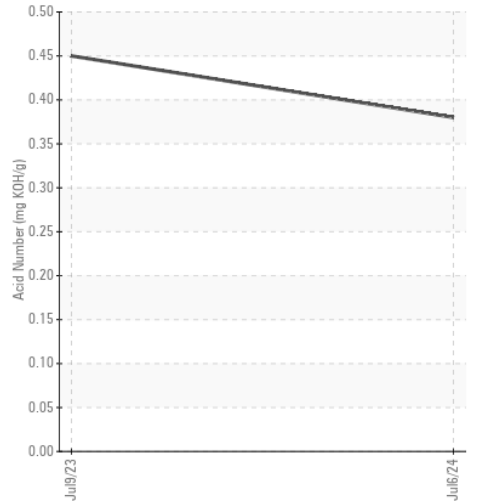
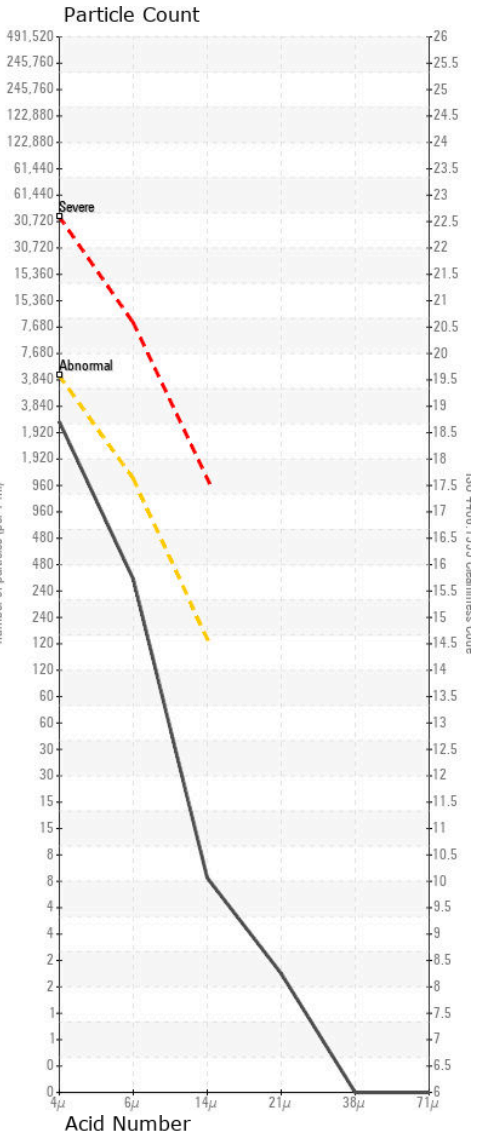
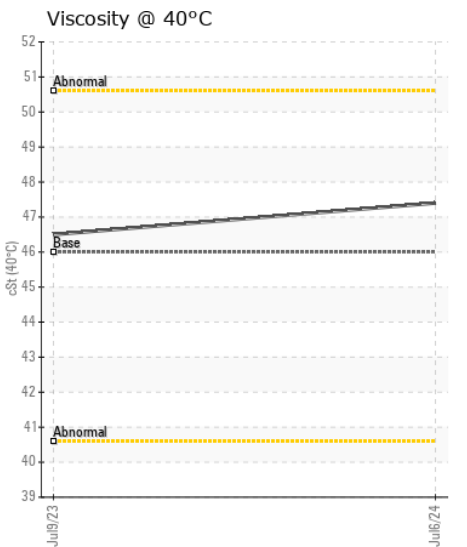
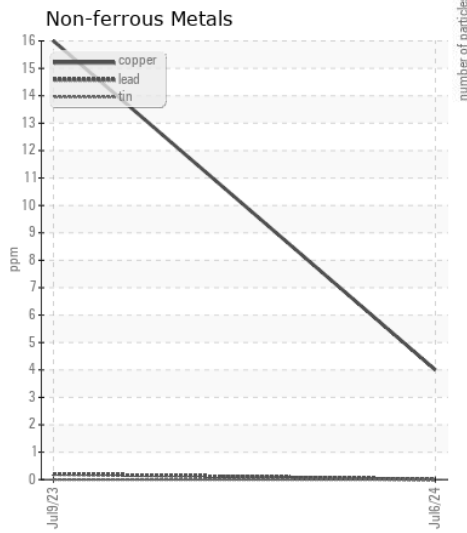
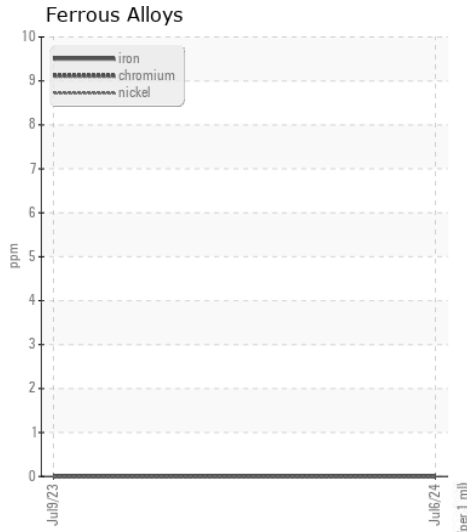
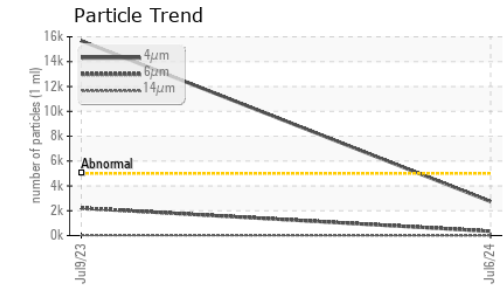
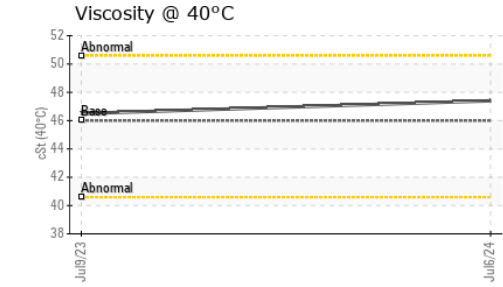
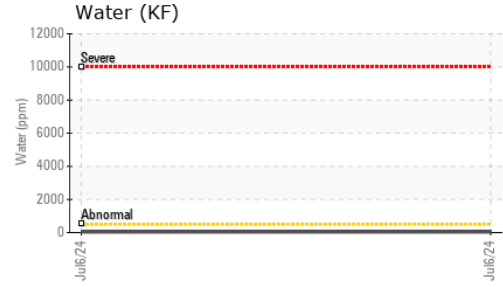
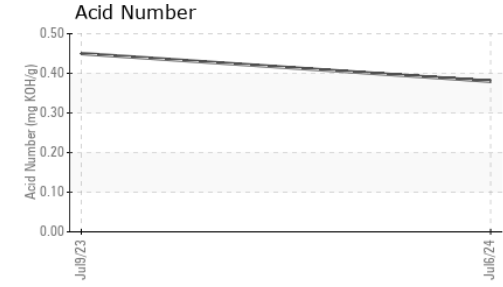
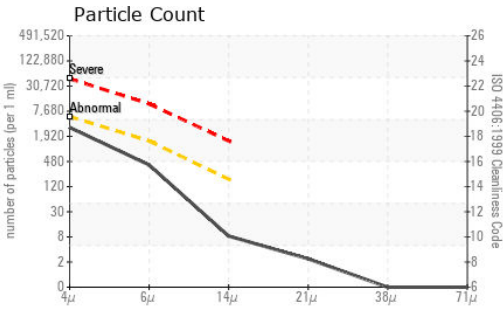
The water content is negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	0	2	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Water	%	ASTM D6304	>0.05	0.004	---	---
ppm Water	ppm	ASTM D6304	>500	41	---	---
Particles >4µm		ASTM D7647	>5000	2740	▲ 15676	---
Particles >6µm		ASTM D7647	>1300	349	● 2213	---
Particles >14µm		ASTM D7647	>160	7	35	---
Particles >21µm		ASTM D7647	>40	2	7	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/10	▲ 21/18/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	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		<1	0	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		49	2	---
Calcium	ppm	ASTM D5185m		23	55	---
Phosphorus	ppm	ASTM D5185m		324	328	---
Zinc	ppm	ASTM D5185m		377	376	---
Sulfur	ppm	ASTM D5185m		5218	13039	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.45	---
Visc @ 40°C	cSt	ASTM D445	46	47.4	46.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0889201 **Received** : 11 Jul 2024
Lab Number : 06233231 **Tested** : 15 Jul 2024
Unique Number : 11116724 **Diagnosed** : 15 Jul 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF)

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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