CONSTRUCTION EQUIPMENT
361 CATERPILLAR DLS01977 - HYDRAULIC SYSTEM

Sample No: VCP408571
Oil Type: SHELL TELLUS S2 MX 46
Job No: 361

TOTAL DEVELOPMENT SOLUTIONS LLC
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SAMPLE INFORMATION

Sample Number		**VCP408571**	---	---	---
Sample Date		**09 Oct 2023**	---	---	---
Machine Hours		**7230**	---	---	---
Oil Hours		**1000**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ATTENTION**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**45.4**	---	---	---
Acid Number (AN)	mg KOH/g	**0.28**	---	---	---

CONTAMINATION

Particles >4µm		**6201**	---	---	---
Particles >6µm		**1771**	---	---	---
Particles >14µm		**76**	---	---	---
ISO 4406:1999 (c)		**20/18/13**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**7**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**9**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**<1**	---	---	---
Chromium	ppm	**7**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**54**	---	---	---
Magnesium	ppm	**6**	---	---	---
Zinc	ppm	**191**	---	---	---
Phosphorus	ppm	**551**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

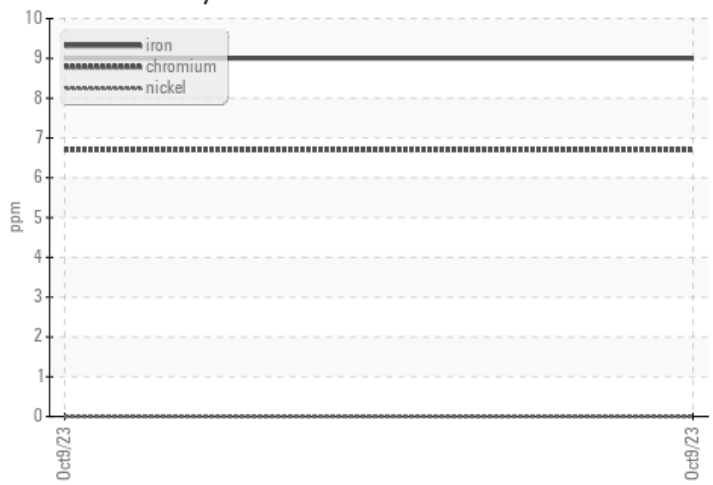
Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

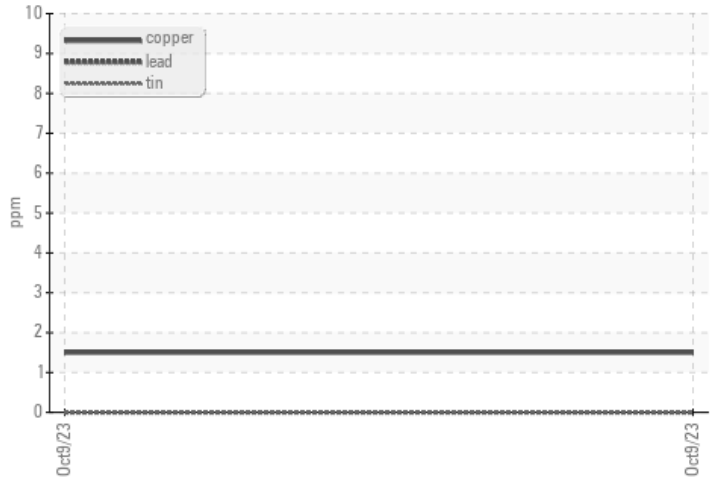
Depot: TOTGAI
Unique No: 10696137
Signed: Don Baldridge
Report Date: 17 Oct 2023

GRAPHS

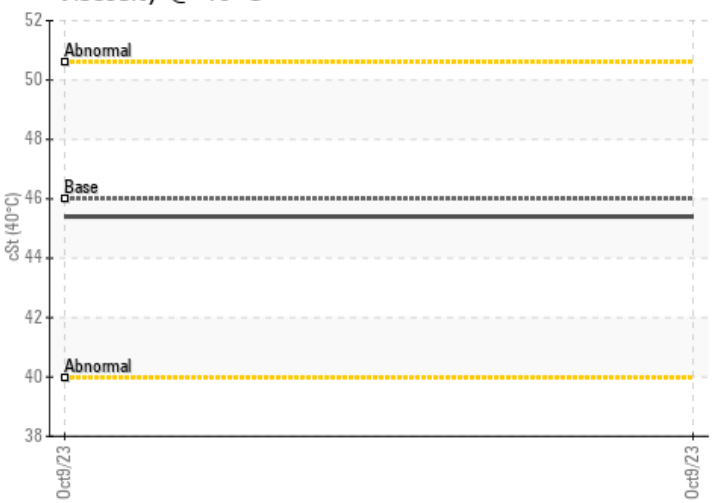
Ferrous Alloys



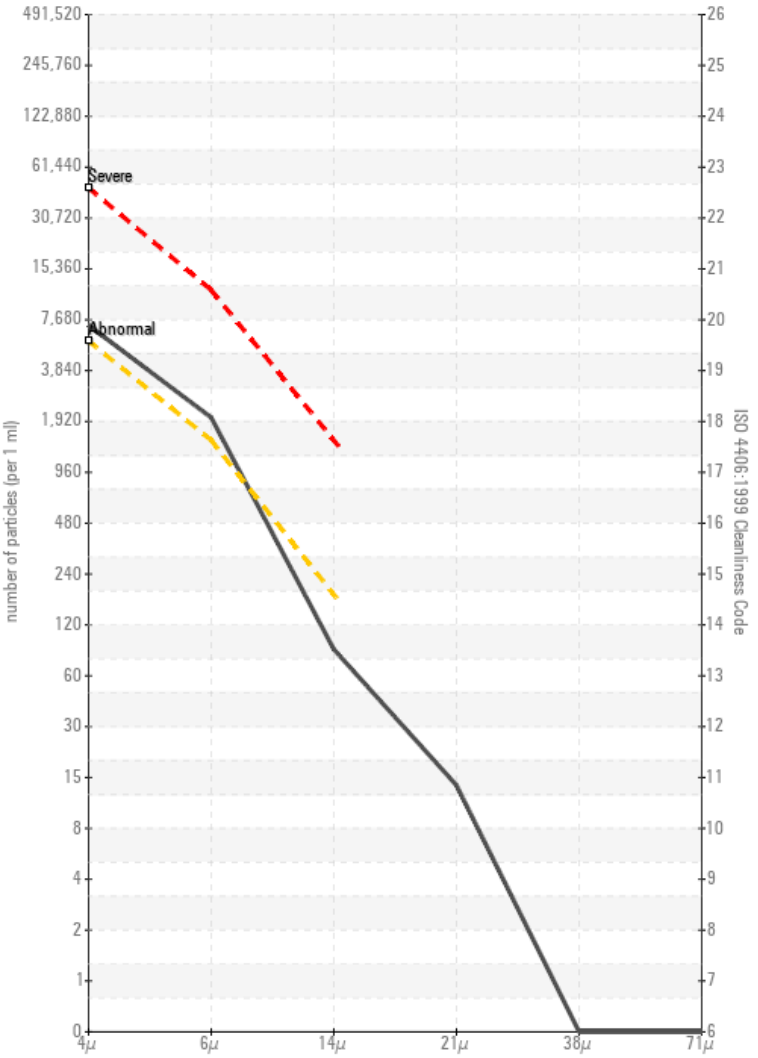
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number