



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
210-4 (S/N VS19D040)

Component
Hydraulic System

Fluid
PROLUBE AW 46 (500 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0679988	WC0679972	---
Sample Date		Client Info		14 Jan 2024	26 Oct 2022	---
Machine Age	yrs	Client Info		10	10	---
Oil Age	yrs	Client Info		5	10	---
Filter Age	yrs	Client Info		1	5	---
Oil Changed		Client Info		Filtered	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>20	20	20	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>20	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	---
Lead	ppm	ASTM D5185(m)	>20	2	3	---
Copper	ppm	ASTM D5185(m)	>20	71	74	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

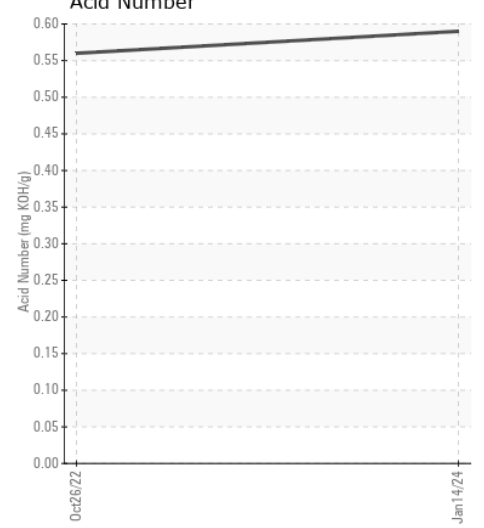
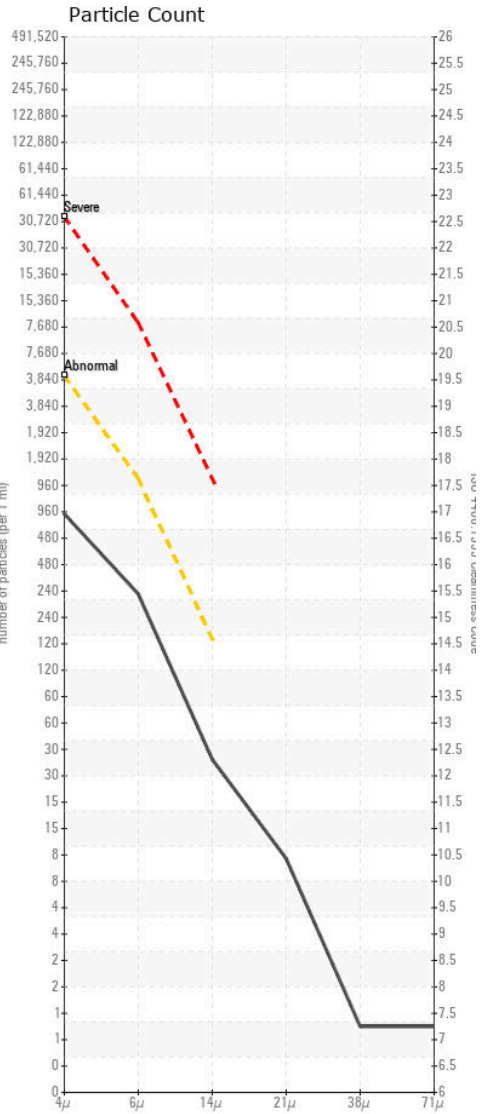
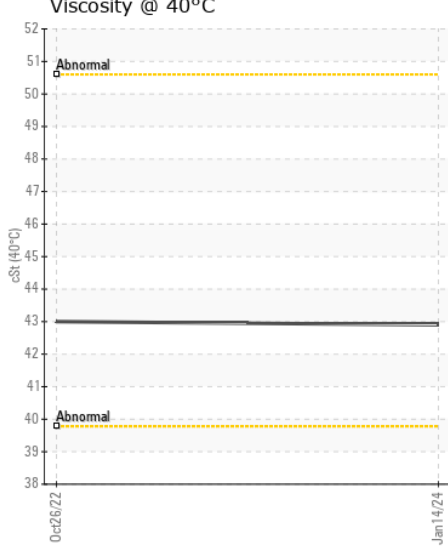
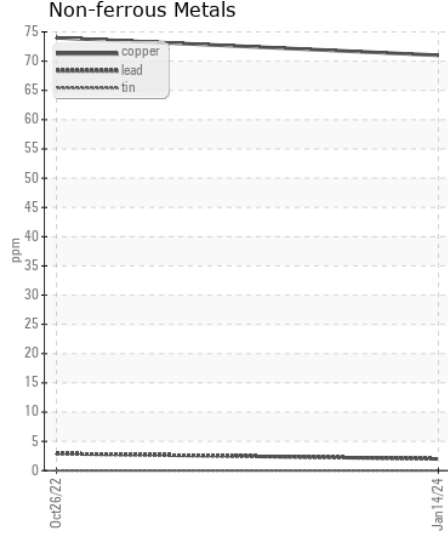
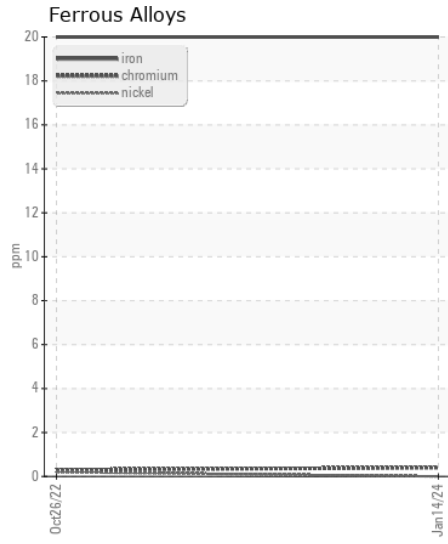
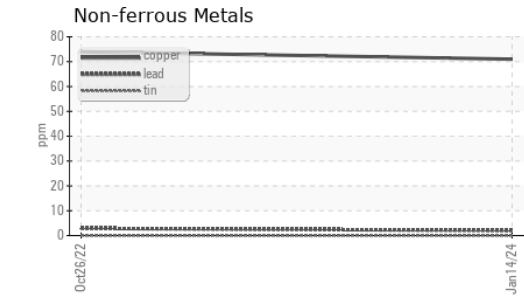
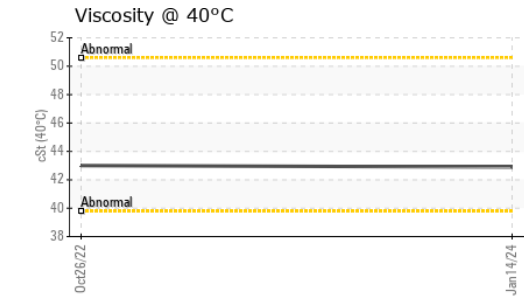
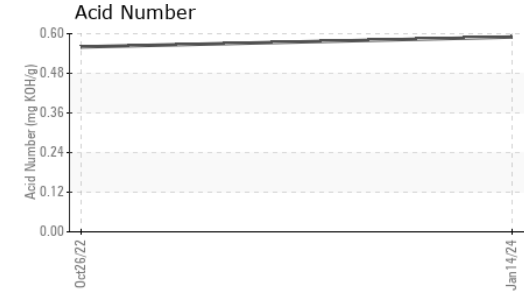
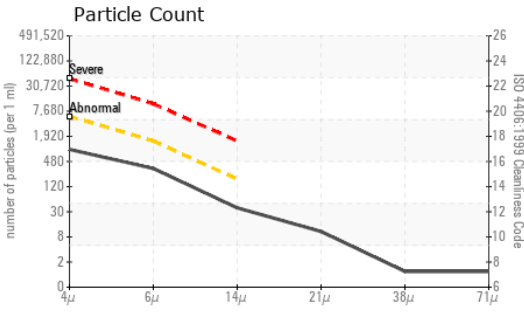
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	1	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.05	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	819	812	---
Particles >6µm		ASTM D7647	>1300	287	348	---
Particles >14µm		ASTM D7647	>160	33	62	---
Particles >21µm		ASTM D7647	>40	9	20	---
Particles >38µm		ASTM D7647	>10	1	2	---
Particles >71µm		ASTM D7647	>3	1	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/16/13	---
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 D5185(m)		1	2	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		4	5	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		15	15	---
Calcium	ppm	ASTM D5185(m)		33	35	---
Phosphorus	ppm	ASTM D5185(m)		470	517	---
Zinc	ppm	ASTM D5185(m)		477	488	---
Sulfur	ppm	ASTM D5185(m)		1462	1464	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.59	0.56	---
Visc @ 40°C	cSt	ASTM D7279(m)		42.9	43.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0679988 **Received** : 16 Jan 2024
Lab Number : 02608998 **Diagnosed** : 17 Jan 2024
Unique Number : 5710084 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

YANFENG
 6450 CANTAY ROAD
 MISSISSAUGA, ON
 CA L5R 4J6
 Contact: Mark Buchanan
 mark.buchanan@yanfeng.com
 T: (905)502-3844
 F: