



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
1450-4 (S/N 3M1324208)
 Component
Hydraulic System
 Fluid
PROLUBE AW 46 (2000 LTR)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0679984	WC0679967	WC905917
Sample Date		Client Info		14 Jan 2024	17 Jun 2022	02 Nov 2021
Machine Age	yrs	Client Info		10	14	15
Oil Age	yrs	Client Info		4	1	2
Filter Age	yrs	Client Info		1	1	2
Oil Changed		Client Info		Filtered	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ATTENTION	ATTENTION	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	2	<1	4
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	3	2	10
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

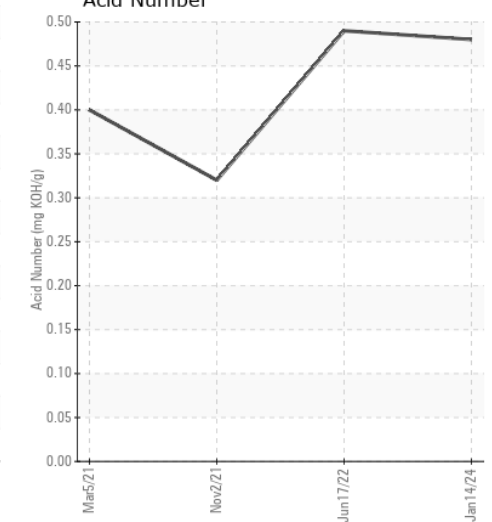
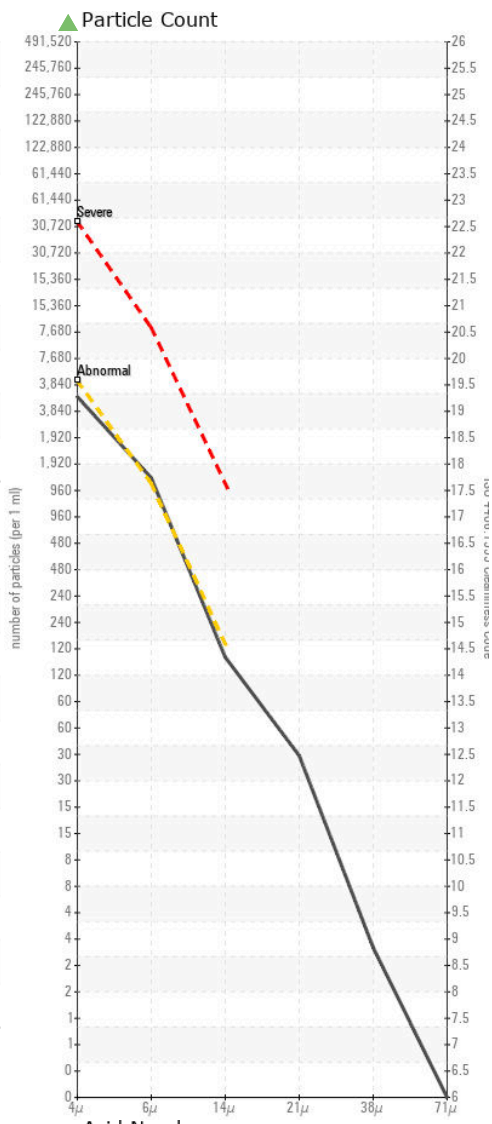
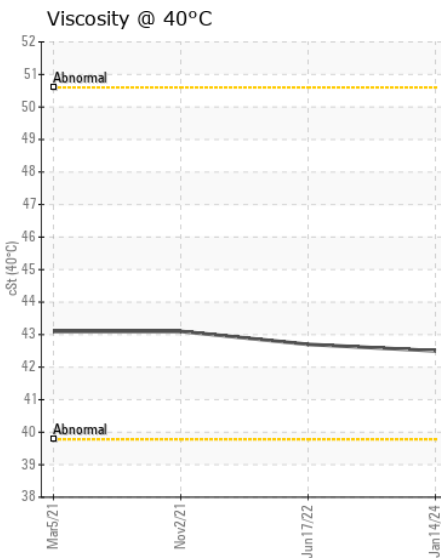
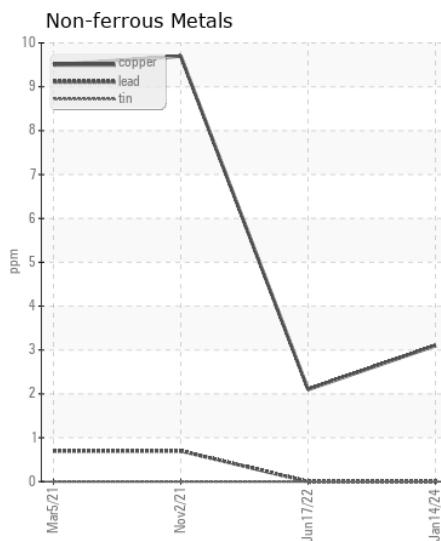
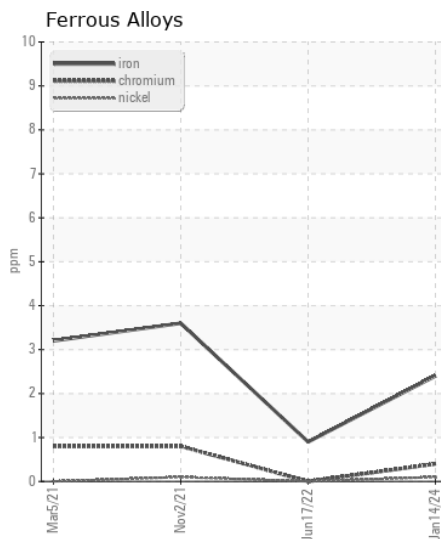
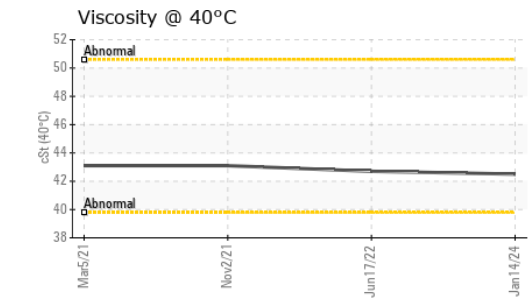
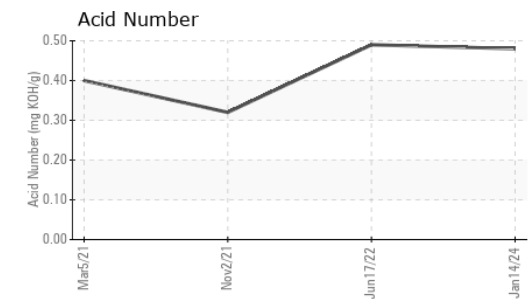
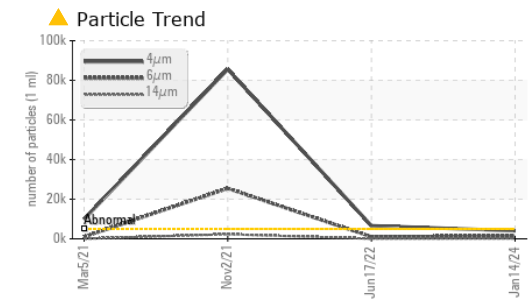
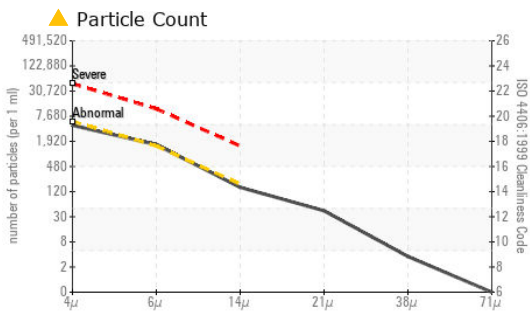
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	4052	▲ 6623	● 85552
Particles >6µm		ASTM D7647	>1300	▲ 1400	1011	● 25471
Particles >14µm		ASTM D7647	>160	134	63	● 2301
Particles >21µm		ASTM D7647	>40	37	12	● 657
Particles >38µm		ASTM D7647	>10	3	1	▲ 61
Particles >71µm		ASTM D7647	>3	0	0	▲ 7
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/18/14	▲ 20/17/13	● 24/22/18
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	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 D5185(m)		0	0	<1
Boron	ppm	ASTM D5185(m)		<1	0	<1
Barium	ppm	ASTM D5185(m)		11	14	3
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		3	<1	<1
Calcium	ppm	ASTM D5185(m)		19	10	19
Phosphorus	ppm	ASTM D5185(m)		475	507	329
Zinc	ppm	ASTM D5185(m)		521	574	368
Sulfur	ppm	ASTM D5185(m)		1122	1214	852
Acid Number (AN)	mg KOH/g	ASTM D974*		0.48	0.49	0.32
Visc @ 40°C	cSt	ASTM D7279(m)		42.5	42.7	43.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0679984 **Received** : 16 Jan 2024
Lab Number : 02608993 **Diagnosed** : 17 Jan 2024
Unique Number : 5710079 **Diagnostician** : Wes Davis
Test Package : IND 2

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.

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