



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area  
**81 FINISHING & WAREHOUSE**

Machine Id  
**Unityer Hydraulic Pump & Reservoir (S/N 812103)**

Component  
**Hydraulic System**

Fluid  
**ESSO NUTO H ISO 68 (80 GAL)**

**RECOMMENDATION**

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

**WEAR**

All component wear rates are normal.

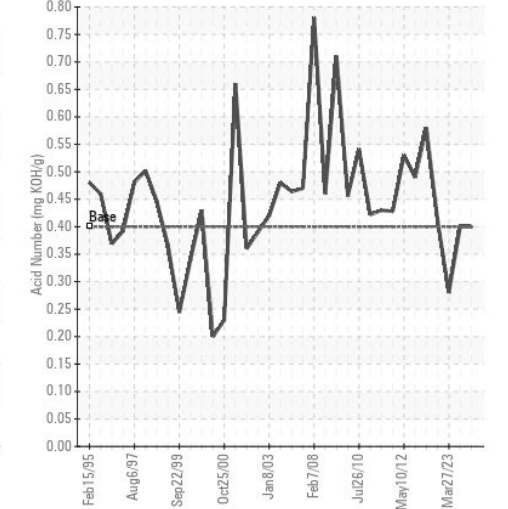
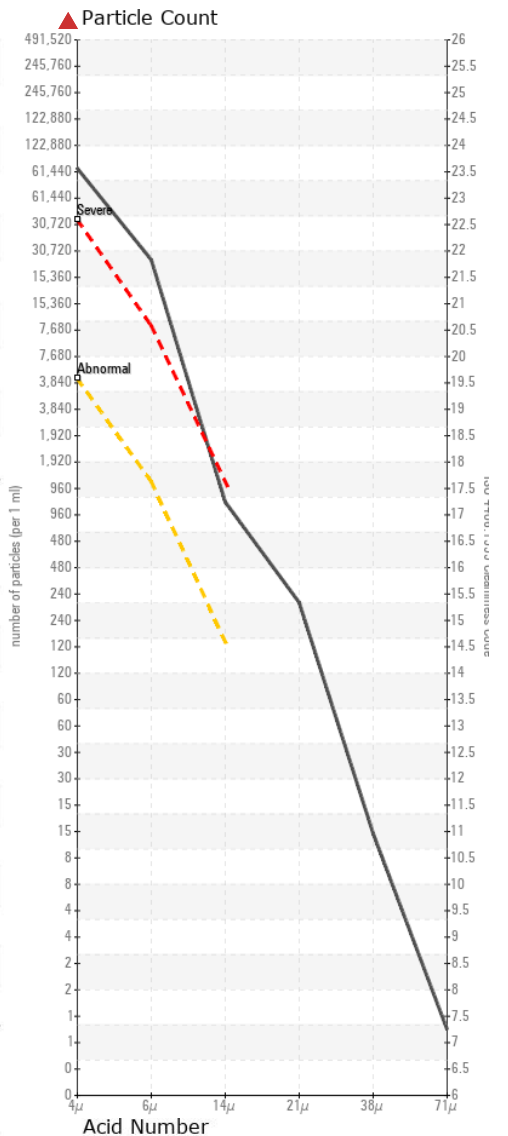
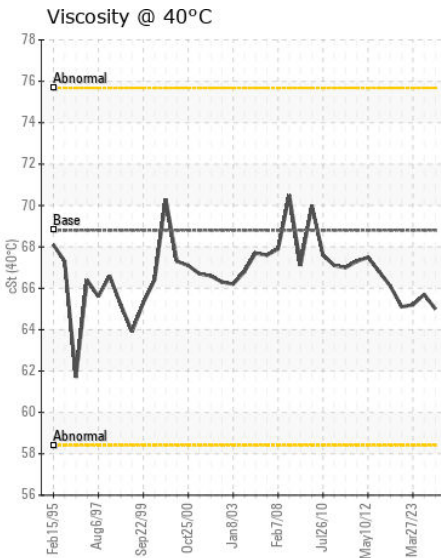
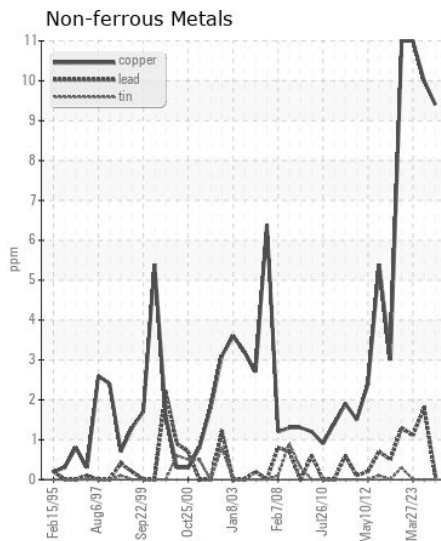
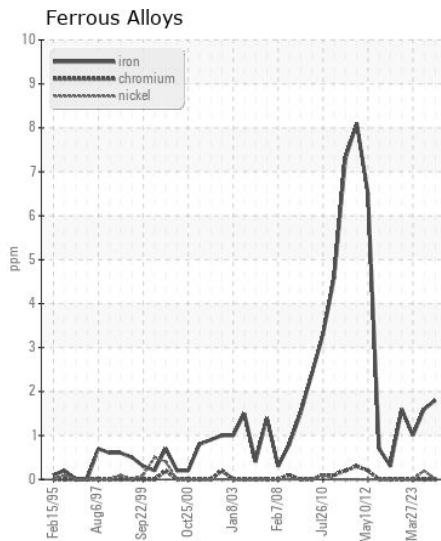
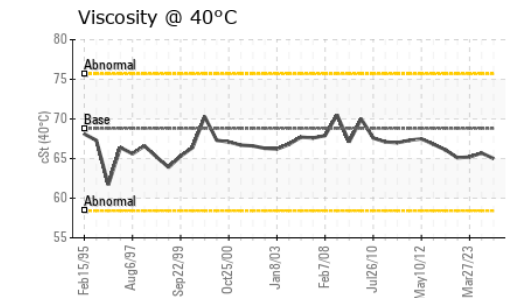
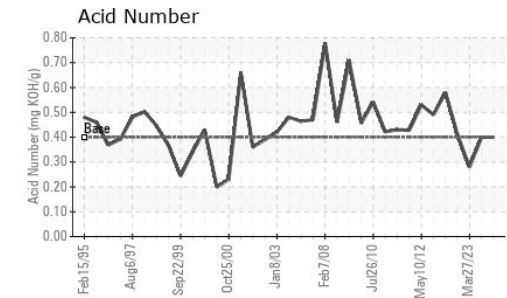
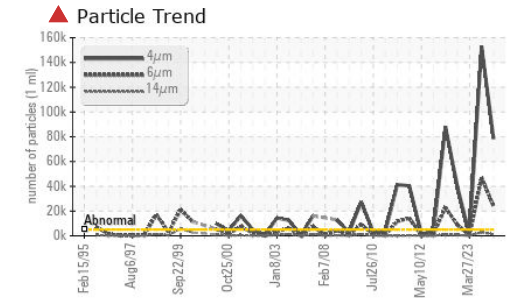
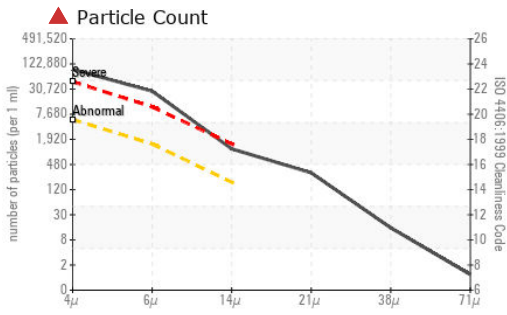
**CONTAMINATION**

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

**FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC</b>	WC	WC0789945
Sample Date		Client Info		<b>22 Apr 2024</b>	03 Oct 2023	27 Mar 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	NORMAL
Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>75	<b>9</b>	10	11
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 78328</b>	▲ 152821	947
Particles >6µm		ASTM D7647	>1300	<b>▲ 23712</b>	▲ 47173	305
Particles >14µm		ASTM D7647	>160	<b>▲ 996</b>	▲ 2872	16
Particles >21µm		ASTM D7647	>40	<b>▲ 267</b>	▲ 807	2
Particles >38µm		ASTM D7647	>10	<b>13</b>	▲ 44	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/22/17</b>	▲ 24/23/19	17/15/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	50	<b>50</b>	56	51
Phosphorus	ppm	ASTM D5185(m)	330	<b>343</b>	347	371
Zinc	ppm	ASTM D5185(m)	420	<b>408</b>	416	414
Sulfur	ppm	ASTM D5185(m)	3100	<b>6275</b>	6278	6642
Acid Number (AN)	mg KOH/g	ASTM D974*	.40	<b>0.40</b>	0.40	0.28
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	<b>65.0</b>	65.7	65.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC  
**Lab Number** : 02631949  
**Unique Number** : 5773102  
**Test Package** : IND 2

**AV GROUP NB INC.**  
 103 PINDER ROAD,, NACKAWIC MILL  
 NACKAWIC, NB  
 CA E6G 1W4  
 Contact: Basil Fadulalla  
 basil.fadulalla@adityabirla.com

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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F: