

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

Machine Id

# DISTRIBUTION CHUTE HPU

Component Hydraulic System Fluid ESSO NUTO H ISO 46 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011806	USP0007219	USP0003087
Sample Date		Client Info		13 May 2024	07 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	historv1	historv2
Iron	nom	ASTM D5185m	> 20	6	6	2
Chromium	ppm	ASTM D5185m	>20	0	-1	0
Nickol	ppm	AGTM D5105m	>20	0	<1	0
Titonium	ppm	ASTM D5185m	>20	0	<1	0
Silvor	ppm	ASTM D5105III		-1	< 1	0
Aluminum	ppm	ASTM D5185m	> 20	<1	0	0
Auminum	ppm	ASTM D5185m	>20	0	ے 1	0
Connor	ppin	AGTM D5105m	>20	15	10	10
Tin	ppm	ASTM D5105III	>20	15	10	0
Vanadium	ppm	ASTM D5185m	>20	-1	0	0
Codmium	ppiii	ASTM D5105III		<1	-1	0
Caulillulli	ррпі	ASTIVI DOTODIII		0	< 1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	2	0
Calcium	ppm	ASTM D5185m	50	60	67	58
Phosphorus	ppm	ASTM D5185m	330	289	325	280
Zinc	ppm	ASTM D5185m	410	299	332	297
Sulfur	ppm	ASTM D5185m	2700	4519	4917	3723
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.008	0.008	0.007
ppm Water	ppm	ASTM D6304	>500	82	82	75.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	371	300	124
Particles >6µm		ASTM D7647	>1300	55	106	49
Particles >14µm		ASTM D7647	>160	5	13	6
Particles >21µm		ASTM D7647	>40	1	4	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	15/14/11	14/13/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.27	0.26	0.26

Contact/Location: ROBERT HOOVER - WEYBUC Page 1 of 2



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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.1	45.2	45.2
SAMPLE IMAGES		method	limit/base	current	history1	history2
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Page 2 of 2