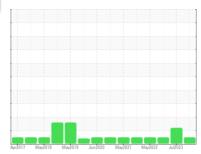


# **OIL ANALYSIS REPORT**

# PARTS **IOWA PERCISION EXPANDREL (S/N UC0003)**

**Hydraulic System** 

ESSO UNIVIS N 46 (150 GAL)



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

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

### **Fluid Condition**

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

Apr2017 May2018 May2019 Jun2020 May2021 May2022 Jul2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0884861	WC0830451	WC0753857
Sample Date		Client Info		10 Jan 2024	17 Jul 2023	04 Dec 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		42	50	49
Phosphorus	ppm	ASTM D5185m		364	378	383
Zinc	ppm	ASTM D5185m		440	495	491
Sulfur	ppm	ASTM D5185m		1453	2949	3140
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2009	<b>▲</b> 6128	3232
Particles >6µm		ASTM D7647	>1300	315	<b>1716</b>	642
Particles >14µm		ASTM D7647	>160	24	112	31
Particles >21µm		ASTM D7647	>40	7	24	17
Particles >38µm		ASTM D7647	>10	1	1	4
Particles >71μm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/12	<b>2</b> 0/18/14	19/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.33	0.33



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: 10829441 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0884861 : 06058059

Recieved : 11 Jan 2024 Diagnosed Diagnostician

: 12 Jan 2024 : Doug Bogart

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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