

OIL ANALYSIS REPORT

Sample Rating Trend

SIAD 2 HYDROGEN COMPRESSOR (S/N M18001) Component Compressor

Fluid MEGFLOW AW 100 (6 GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

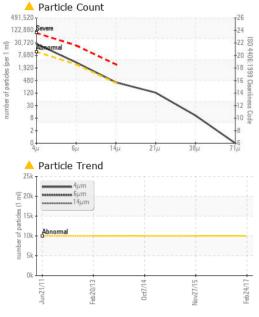
Fluid Condition

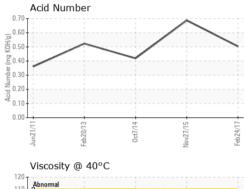
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

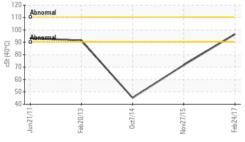
		Jun2011	Feb2013	Oct2014 Nov2015	Feb2017	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCI2305189	WCI2258365	WCI2258311
Sample Date		Client Info		24 Feb 2017	27 Nov 2015	07 Oct 2014
Machine Age	hrs	Client Info		1486	85	8238
Oil Age	hrs	Client Info		599	85	489
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	SEVERE
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	2	37
Chromium	ppm	ASTM D5185m	>10	0	0	2
Nickel	ppm	ASTM D5185m		<1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>25	9	15	4 344
Copper	ppm	ASTM D5185m	>50	3	2	39
Tin	ppm	ASTM D5185m	>15	<1	0	0
Antimony	ppm	ASTM D5185m		0	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	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	20
Calcium	ppm	ASTM D5185m		42	76	194
Phosphorus	ppm	ASTM D5185m		321	386	326
Zinc	ppm	ASTM D5185m		399	502	378
Sulfur	ppm	ASTM D5185m		766	914	955
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	11
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	4	0	15



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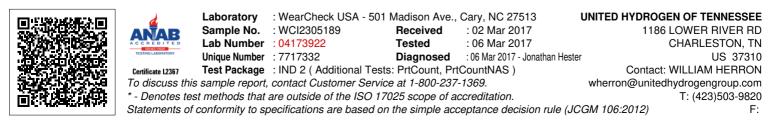




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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>		
Particles >6µm		ASTM D7647	>2500	<u> </u>		
Particles >14µm		ASTM D7647	>320	<u> </u>		
Particles >21µm		ASTM D7647	>80	🔺 111		
Particles >38µm		ASTM D7647	>20	9		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>		
Particles 5-15µm	count	*NAS 1638	>2500	267035		
Particles 15-25µm	count	*NAS 1638	>320	22248		
Particles 25-50µm	count	*NAS 1638	>80	10265		
Particles 50-100µm	count	*NAS 1638	>20	877		
Particles >100µm	count	*NAS 1638	>4	0		
NAS Code		*NAS 1638	>20/18/15	11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		0.503	0.687	0.419

Acid Number (AN)	mg KOH/g	ASTM D8045		0.503	0.687	0.419
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	VLITE	NONE	LIGHT
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	LIGHT	NONE	LIGHT
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	>0.1	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		96.51	71.6	45.16
SAMPLE IMAGES	5	method	limit/base	current	history1	history2

Color	no image	no image
Bottom	no image	no image



Contact/Location: WILLIAM HERRON - UNICHATN