

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id 7S (S/N U203600104) Component Vacuum Pump

Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

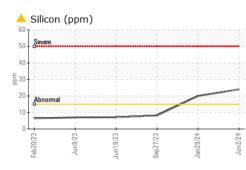
Fluid Condition

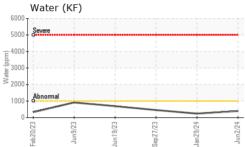
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

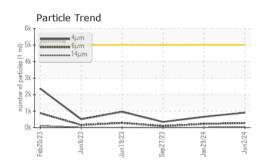
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36381	USPM30817	USPM29815
Sample Date		Client Info		02 Jun 2024	29 Jan 2024	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	1	1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
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	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	2	2	<1
Phosphorus	ppm	ASTM D5185m	1800	983	908	1176
Zinc	ppm	ASTM D5185m	0	20	0	0
Sulfur	ppm	ASTM D5185m	0	8	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4 24	2 0	8
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>.1	0.039	0.024	0.045
ppm Water	ppm	ASTM D6304	>1000	394	242	455.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	908	660	348
Particles >6µm		ASTM D7647	>1300	276	227	100
Particles >14µm		ASTM D7647	>160	24	17	9
Particles >21µm		ASTM D7647	>40	3	5	3
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/15/11	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.95	0.71	0.58

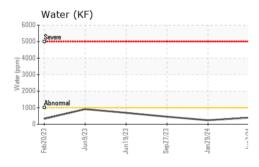


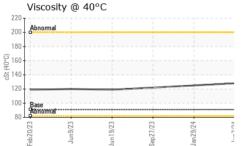
OIL ANALYSIS REPORT













Laboratory Sample No. Lab Number : 06197687 Certificate 12367

Unique Number : 11059810 Test Package : IND 2

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

: USPM36381

GRAPHS Ferrous Alloys

icke

50/6um

Non-ferrous Metals

Viscosity @ 40°C

Jun9/23 -

Jun19/23

Jun 19/23

Jun19/23

CULLCue

Sen27/23

Sep27/23

Received

Diagnosed

Tested

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

10

0

10

PC/024

C/UC44

250

200 (200 (200 (200 (200 (200) (20)

100

50

Feb20/23

* - 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)

T: F:

un2/24

an29/24

CARGILL FORT MORGAN

1505 E BURLINGTON AVE

Contact: JOE ROSENFIELD

FORT MORGAN, CO

20 2

4406

1999 Cle

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Report Id: CARFORCOL [WUSCAR] 06197687 (Generated: 06/07/2024 04:13:31) Rev: 1

Contact/Location: JOE ROSENFIELD - CARFORCOL

Jun19/23

Sep27/23

US 80701

VISUAL		method	limit/base	current	history1	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	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 91	current 128	history1 125	history2 122
	cSt					,
Visc @ 40°C	cSt	ASTM D445	91	128	125	122

Particle Count

Acid Number

Jun9/23

491 520

122,880

30,720

480

120

30

00.8 (mg KOH/g) 4.00 4.00

J 2.00

0.00 P

ch20/7

Jun2/24

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Jun2/24 -

: 03 Jun 2024

: 04 Jun 2024

: 05 Jun 2024 - Doug Bogart

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Jan 29/24

Jan 29/24