

OIL ANALYSIS REPORT



Machine Id

SL4-2 ASSET 9705 (S/N C1444000126) Component Vacuum Pump

Fluid

USPI 1580-125 (11 GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

A Wear

The iron level is abnormal.

Contamination

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

Fluid Condition

An increase in the AN level is noted. Confirmed.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006759	USP0006259	USPM30329
Sample Date		Client Info		28 Mar 2024	20 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		389	265	410
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	A 32	2	<1
Chromium	ppm	ASTM D5185m	>20	1	0	0
Nickel	ppm	ASTM D5185m	>20	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	0
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>20	3	1	<1
Tin	ppm	ASTM D5185m	>20	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	0	0
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		6	4	<1
Phosphorus	ppm	ASTM D5185m		1626	1568	1803
Zinc	ppm	ASTM D5185m		11	<1	0
Sulfur	ppm	ASTM D5185m		1000	1136	1267
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>	4 0	1 8
Sodium	ppm	ASTM D5185m		5	0	0
Potassium	ppm	ASTM D5185m	>20	1	3	0
Water	%	ASTM D6304	>2.0	0.313	0.235	0.178
ppm Water	ppm	ASTM D6304	>20000	3135	2358	1789
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	491	152	690
Particles >6µm		ASTM D7647	>1300	131	41	254
Particles >14µm		ASTM D7647	>160	26	2	27
Particles >21µm		ASTM D7647	>40	9	1	8
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/12	14/13/9	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.04	0.85	1.45



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method

VISUAL







2.5

(B/H0)

e 1.00 Pio O.5

0.00

2500

2000

E 1500

Nate 10000

5000

Sev

Sep 28/2

MED.

Water (KF)

ßm 5



limit/base

current



history1

history2

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: CAMLES USP [WUSCAR] 06147359 (Generated: 04/16/2024 16:33:43) Rev: 1

Contact/Location: Service Manager - CAMLES USP

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