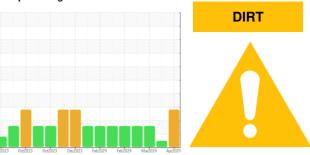


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SL4-2 ASSET 9705 (S/N C1444000126)

Vacuum Pump

USPI 1580-125 (11 GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life and we recommend schedule an oil change. Resample at the next service interval to monitor.

Iron level is noted.

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 at the top-end of the recommended limit.

Sample Number Client Info USP0006760 USP0006759 USP0 Sample Date Client Info 03 Apr 2024 28 Mar 2024 20 Mar 20	story2 006259 r 2024 PRMAL story2
Sample Date Client Info 03 Apr 2024 28 Mar 2024 20 Mar 2024 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 447 389 265 Oil Changed Client Info N/A N/A N/A Sample Status ABNORMAL ABNO WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 32 2 Chromium ppm ASTM D5185m >20 <1 1 0 Nickel ppm ASTM D5185m >20 1 1 0	r 2024 DRMAL
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 447 389 265 Oil Changed Client Info N/A N/A N/A Sample Status ABNORMAL ABNO WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 32 2 Chromium ppm ASTM D5185m >20 <1 1 0 Nickel ppm ASTM D5185m >20 1 1 0	RMAL
Oil Age hrs Client Info 447 389 265 Oil Changed Client Info N/A N/A N/A N/A Sample Status ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 △ 32 2 Chromium ppm ASTM D5185m >20 <1	
Oil Changed Client Info N/A N/A N/A N/A Sample Status ABNORMAL ABNOC WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 ▲ 32 2 Chromium ppm ASTM D5185m >20 <1	
Sample Status ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 ▲ 32 2 Chromium ppm ASTM D5185m >20 <1	
WEAR METALS method limit/base current history1 h Iron ppm ASTM D5185m >20 28 ▲ 32 2 Chromium ppm ASTM D5185m >20 <1 1 0 Nickel ppm ASTM D5185m >20 1 1 0	
Iron ppm ASTM D5185m >20 28 ▲ 32 2 Chromium ppm ASTM D5185m >20 <1	story2
Chromium ppm ASTM D5185m >20 <1	
Nickel ppm ASTM D5185m >20 1 1 0	
pp.	
Titanium ppm ASTM D5185m <1 <1 0	
Silver ppm ASTM D5185m 0 0	
Aluminum ppm ASTM D5185m >20 3 3	
Lead ppm ASTM D5185m >20 1 1 0	
Copper ppm ASTM D5185m >20 3 1	
Tin ppm ASTM D5185m >20 1 1 <1	
Vanadium ppm ASTM D5185m <1 <1 0	
Cadmium ppm ASTM D5185m 1 1 0	
ADDITIVES method limit/base current history1 h	story2
Boron ppm ASTM D5185m 0 0 0	
Barium ppm ASTM D5185m <1 <1	
Molybdenum ppm ASTM D5185m <1 <1 0	
Manganese ppm ASTM D5185m 1 1	
Magnesium ppm ASTM D5185m <1 <1 2	
Calcium ppm ASTM D5185m 5 6	
Phosphorus ppm ASTM D5185m 1429 1626 156	8
Zinc ppm ASTM D5185m 9 11 <1	
Sulfur ppm ASTM D5185m 879 1000 113	36
CONTAMINANTS method limit/base current history1 h	story2
Silicon ppm ASTM D5185m >15 ▲ 68 ▲ 63 ▲ 40	
Sodium ppm ASTM D5185m 6 5	
Potassium ppm ASTM D5185m >20 1 1 3	
Water % ASTM D6304 >2.0 0.215 0.313 0.2	35
ppm Water ppm ASTM D6304 >20000 2152 3135 238	58
	story2
FLUID CLEANLINESS method limit/base current history1 h	`
FLUID CLEANLINESS method limit/base current history1 h Particles >4μm ASTM D7647 >5000 187 152	
,	
Particles >4μm ASTM D7647 >5000 187 152	<u>′</u>
Particles >4μm ASTM D7647 >5000 187 152 Particles >6μm ASTM D7647 >1300 57 41	<u> </u>
Particles >4μm ASTM D7647 >5000 187 152 Particles >6μm ASTM D7647 >1300 57 41 Particles >14μm ASTM D7647 >160 9 2 Particles >21μm ASTM D7647 >40 4 1	<u> </u>
Particles >4μm ASTM D7647 >5000 187 152 Particles >6μm ASTM D7647 >1300 57 41 Particles >14μm ASTM D7647 >160 9 2 Particles >21μm ASTM D7647 >40 4 1 Particles >38μm ASTM D7647 >10 1 0	<u>′</u>
Particles >4μm ASTM D7647 >5000 187 152 Particles >6μm ASTM D7647 >1300 57 41 Particles >14μm ASTM D7647 >160 9 2 Particles >21μm ASTM D7647 >40 4 1 Particles >38μm ASTM D7647 >10 1 0 Particles >71μm ASTM D7647 >3 0 0	13/9
Particles >4μm ASTM D7647 >5000 187 152 Particles >6μm ASTM D7647 >1300 57 41 Particles >14μm ASTM D7647 >160 9 2 Particles >21μm ASTM D7647 >40 4 1 Particles >38μm ASTM D7647 >10 1 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/13/10 14/	



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

Test Package : IND 2

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06147360 Unique Number : 10977438

: USP0006760

Received : 12 Apr 2024 Tested : 15 Apr 2024 Diagnosed

: 15 Apr 2024 - Doug Bogart

CAMBRIA 31496 CAMBRIA AVE LE SUEUR, MN US 56058

Contact: Service Manager

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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