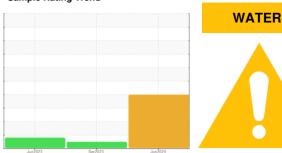


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PLANT 5 PUMP A

Vacuum Pump

HYDROTEX Ultra-Kleen ISO 100 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

All component wear rates are normal.

Contamination

Free water present. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

Fluid Condition

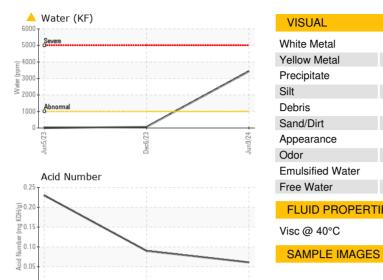
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

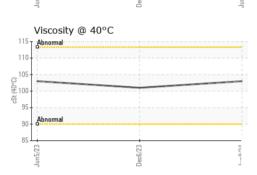
Jun2023 Dec2023 Jun2024								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP0013434	USP0004126	USP242050		
Sample Date		Client Info		09 Jun 2024	06 Dec 2023	05 Jun 2023		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	NORMAL	ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	2	0	3		
Chromium	ppm	ASTM D5185m	>20	0	0	0		
Nickel	ppm	ASTM D5185m	>20	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>20	0	0	<1		
Lead	ppm	ASTM D5185m	>20	0	0	0		
Copper	ppm	ASTM D5185m	>20	0	0	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		<1	0	0		
Molybdenum	ppm	ASTM D5185m		0	0	0		
Manganese	ppm	ASTM D5185m		<1	0	0		
Magnesium	ppm	ASTM D5185m		0	0	0		
Calcium	ppm	ASTM D5185m		3	0	0		
Phosphorus	ppm	ASTM D5185m		39	414	414		
Zinc	ppm	ASTM D5185m		20	0	0		
Sulfur	ppm	ASTM D5185m		147	1029	1200		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	<1	0	2		
Sodium	ppm	ASTM D5185m		3	<1	2		
Potassium	ppm	ASTM D5185m	>20	2	0	0		
Water	%	ASTM D6304	>.1	△ 0.343	0.006	0.001		
ppm Water	ppm	ASTM D6304	>1000	▲ 3430	68	0.4		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000		1436	7455		
Particles >6µm		ASTM D7647	>1300		326	1241		
Particles >14µm		ASTM D7647	>160		29	13		
Particles >21µm		ASTM D7647	>40		9	1		
Particles >38µm		ASTM D7647	>10		1	0		
Particles >71µm		ASTM D7647	>3		0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14		18/16/12	20/17/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.061	0.09	0.23		



0.00

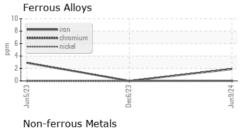
OIL ANALYSIS REPORT

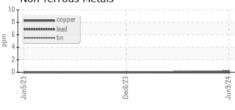


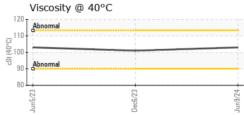


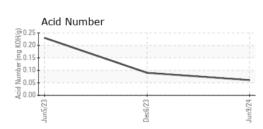
VIIOLIAI						
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	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	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		103	101	103
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				CANADOR		

GRAPHS













Laboratory Sample No.

Lab Number : 06205521

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0013434

Unique Number : 11072982

Received

: 10 Jun 2024 **Tested** : 12 Jun 2024 Diagnosed

: 12 Jun 2024 - Doug Bogart

DALHART, TX US Contact: Service Manager

HILMAR CHEESE

Test Package : IND 2 Certificate 12367 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)

Contact/Location: Service Manager - HILDAL

T:

F: