

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PLANT 6 DVT 10

Component Vacuum Pump Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on 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.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

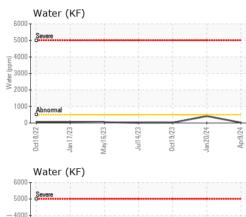
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

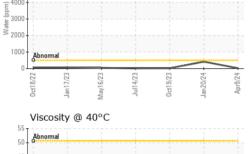
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006778	USP0005666	USP232233
Sample Date		Client Info		09 Apr 2024	20 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		2	0	0
Tin	ppm	ASTM D5185m	>20	ء <1	0	0
Vanadium	ppm	ASTM D5185m	2 LU	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		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m		3	<1	2
Phosphorus	ppm	ASTM D5185m		133	99	79
Zinc	ppm	ASTM D5185m		0	7	0
Sulfur	ppm	ASTM D5185m		129	30	42
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		3	<1	0
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water	%	ASTM D6304	>0.05	0.002	0.041	0.002
ppm Water	ppm	ASTM D6304	>500	21	419	17.5
	ESS	method	limit/base	current	history1	history2
FLUID CLEANLIN						· · · · · · · · · · · · · · · · · · ·
FLUID CLEANLIN Particles >4µm		ASTM D7647	>5000		1134	857
Particles >4µm Particles >6µm						
Particles >4µm Particles >6µm		ASTM D7647	>5000		1134	857
Particles >4μm Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>5000 >1300		1134 263	857 197
Particles >4μm Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160		1134 263 15	857 197 15
		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	 	1134 263 15 5	857 197 15 4
Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10	 	1134 263 15 5 0	857 197 15 4 0
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>5000 >1300 >160 >40 >10 >3	 	1134 263 15 5 0 0	857 197 15 4 0 0

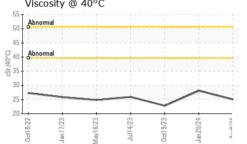
Contact/Location: Service Manager - HILDAL Page 1 of 2



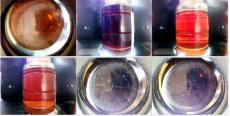
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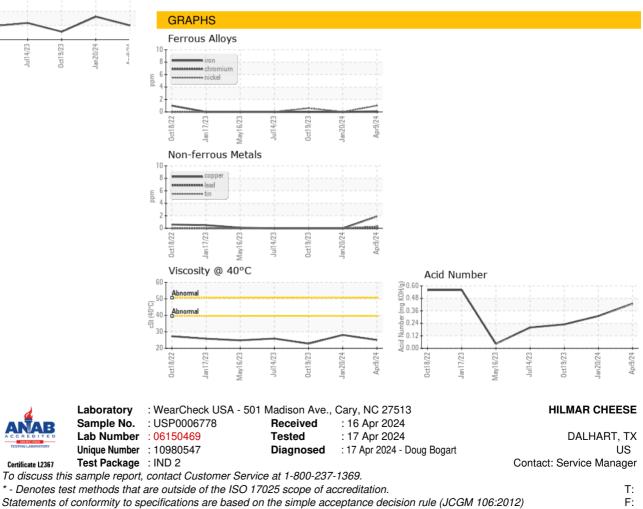




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		25.0	28.1	22.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom





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Certificate 12367

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