

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

HT-502 (S/N J030592)

Refrigeration Compressor Fluid M & M 717 (--- GAL)

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DIAGNOSIS

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

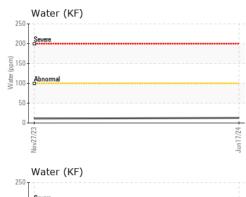
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

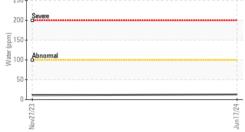
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013039	USP0003854	
Sample Date		Client Info		17 Jun 2024	27 Nov 2023	
Machine Age	hrs	Client Info		25618	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	14	5	
Chromium	ppm	ASTM D5185m	>2	<1	<1	
Nickel	ppm	ASTM D5185m		0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	<1	
Lead	ppm	ASTM D5185m	>2	0	<1	
Copper	ppm	ASTM D5185m	>8	0	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		0	0	
Zinc	ppm	ASTM D5185m		2	0	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water	%	ASTM D6304		0.001	0.001	
ppm Water	ppm	ASTM D6304	>100	13	11	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		13490	
Particles >6µm		ASTM D7647	>2500		1744	
Particles >14µm		ASTM D7647	>320		20	
Particles >21µm		ASTM D7647			5	
Particles >38µm		ASTM D7647	>20		0	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15		21/18/11	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	-11112/0430	0.014	0.015	
	iliy NO⊓/y	AUTIVI DU14		0.014	0.015	

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OIL ANALYSIS REPORT





Viscosity @ 40°C



	VISUAL		method	limit/base	current	history1	histo
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE		NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	
	Free Water	scalar	*Visual	20.01	NEG	NEG	
1	FLUID PROPERT			limit/base			
			method ASTM D445	limit/base	current	history1	hist
	Visc @ 40°C	cSt			67.8	68.5	
	SAMPLE IMAGES	5	method	limit/base	current	history1	hist
					H3 - HT-502		
	Color				All Table Science City, La	·	no in
					A State and the fit	and - 1	
					1		
	Bottom						no in
					A CASE A		
11 11 Ed	iron	_					
10 Wdd	Ferrous Alloys			Jun 17/24			
udd !	Ferrous Alloys	5		Jun17/24			
10 Wdd	Ferrous Alloys	3		Jun17/24			
11 wdd !	Ferrous Alloys	5		Jun17/24			
10 wdd	Ferrous Alloys	5		Jun17/24			
10 wdd ! 11 11 udd ;	Ferrous Alloys	5		Jun17/24			
10 wdd	Ferrous Alloys	5					
10 wdd	Ferrous Alloys	3					
10 wdd ! 11 11 udd ;	Ferrous Alloys	5		Jun17/24	Acid Number		
	Ferrous Alloys	5		Jun17/24	Acid Number		
11 udd ! 10 11 11 12 12 12 11 12 11 11 12 11 11	Ferrous Alloys	5		Jun17/24			
	Ferrous Alloys	3		Jun17/24			
11 undd ! (11 11 12(1 11) 12(1 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(1) 11) 12(Ferrous Alloys	5		Jun17/24			
11 undd ! !	Ferrous Alloys	5		Jun17/24			
11 mdd ! (11 12(12(12() 12(Ferrous Alloys	5					

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)

Certificate L2367

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