

OIL ANALYSIS REPORT

Area MISSION BELL [9263] Machine Id GEA COMP 6 - MISSION BELL (S/N P1594) Component

Refrigeration Compressor

APCCO ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

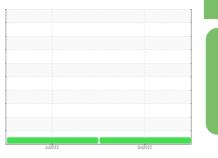
All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

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



Sample Rating Trend

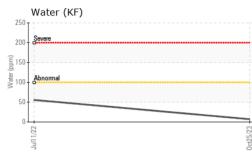


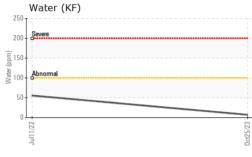
NORMAL

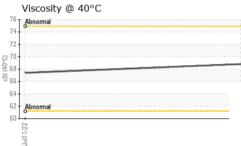
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851604	WC0653517	
Sample Date		Client Info		25 Oct 2023	11 Jul 2022	
Machine Age	hrs	Client Info		0	72822	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Filtered	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	2	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>3	0	<1	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	<1	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 <1	history2
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	<1	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	<1 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	<1 0 0	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	<1 0 0 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0	<1 0 0 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0	<1 0 0 0 0 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0 0	<1 0 0 0 0 0 6	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0 0 0	<1 0 0 0 0 0 6 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0 0 0 0 0 0 0 85	<1 0 0 0 0 0 6 0 249 history1 2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0 0 0 85 current	<1 0 0 0 0 0 6 0 249 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	0 0 0 0 0 0 0 0 85 current 5	<1 0 0 0 0 0 6 0 249 history1 2	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	0 0 0 0 0 0 0 0 85 Current 5 <	<1 0 0 0 0 0 6 0 249 history1 2 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >15 >20	0 0 0 0 0 0 0 0 85 Current 5 <1 <1	<1 0 0 0 0 0 6 0 249 history1 2 0 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >15 >20 >0.01	0 0 0 0 0 0 0 0 85 <u>current</u> 5 <1 <1 <1 0.001	<1 0 0 0 0 0 6 0 249 history1 2 0 0 0 0 0.005	 history2



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	VISUAL		method	limit/base	current	history1	history2	2
	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	LIGHT	VLITE		
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE		
- 123	Appearance	scalar	*Visual	NORML	NORML	NORML		
0ct25/23	Odor	scalar	*Visual	NORML	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG		
			*Visual	>0.01				
	Free Water	scalar	visual		NEG	NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2	2
	Visc @ 40°C	cSt	ASTM D445		68.8	67.4		
	SAMPLE IMAGES	5	method	limit/base	current	history1	history2	2
0ct25/23	Color						no image	-
	Bottom				\bigcirc		no image	
	GRAPHS							
	Ferrous Alloys			491,52	Particle Count		T	-26
	8- iron							
	6 - mickel			122,88	Severe		-2	-24
	4			30,72				-22
	2			50,72	Abnormal			LL
	0			7,68			-2	20
	Jul11/22			0ct25/23 (per 1 ml)				-18 -16 -14
	llut			26'1 0ct25			1	18
	Non-ferrous Metals	s)-	·		16
	¹⁰ T			of pa				
	8 - copper			12225/23 1000000000000000000000000000000000000	2		-1	14
8	C			2 3			1	12
	4							16
	2				3-		-1	10
								
	Jul11/22			0ct25/23	4		T ^e	8
	Lu L			0ct)	14µ 21µ	38µ 71µ	-6
	Viscosity @ 40°C				^{4μ} ^{6μ} Acid Number	14μ 21μ	30µ /1p	14
	80			_☉ 0.0	² T			
_	75 - Abnormal			KOH				
4U-C	70			<u></u>	1			
to the second				.0.0	1			
	65 - Abnormal			0.0 0.0 grid Number (mg KOH/g) 0.0 Acid Number (mg				
	60 + +							5
	Jul11/22			0ct25/23	Jul11/22			00107-0
Laboratory Sample No. Lab Number Unique Number Test Package liscuss this sample report, c	: WC0851604 F : 05995676 C : 10724036 C : PLANT	Receivec Diagnose Diagnost	son Ave., Cary, NC 27513 I : 01 Nov 2023 ed : 03 Nov 2023 ician : Jonathan Hester			SCHRADER MECHANICAI 1015 BLACK DIAMOND WAY LODI PROVINCE, C/ US 9524 Contact: Schrader Mechanica amanda.h@smiwest.con T: (209)369-688		

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