

OIL ANALYSIS REPORT

Area 88-19 Manipulator Cell 130 X (S/N SC006898)

Reduction Gear

Fluid MOBIL MOBILGEAR 600 XP 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

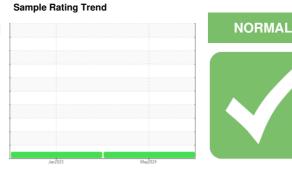
All component wear rates are normal.

Contamination

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.

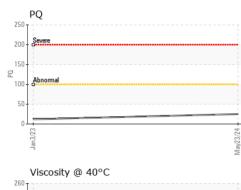


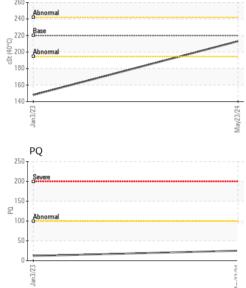


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910143	WC0701616	
Sample Date		Client Info		23 May 2024	03 Jan 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		25	12	
Iron	ppm	ASTM D5185m	>150	5	5	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>100	<1	0	
Copper	ppm	ASTM D5185m	>50	1	0	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		20	20	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		<1	0	
Calcium	ppm	ASTM D5185m		<1	0	
Phosphorus	ppm	ASTM D5185m		245	345	
Zinc	ppm	ASTM D5185m		1	4	
Sulfur	ppm	ASTM D5185m		9302	15809	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	<1	
Sodium	ppm	ASTM D5185m		1	<1	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.1	NEG	NEG	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	0.79	



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VISUAL		method	limit/base	current	history1	history2
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	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERTI	IES	method	limit/base	current	history1	history2
√isc @ 40°C	cSt	ASTM D445	220	213	148	
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				•	CS 130 SCOOLS X seeher	no image
Bottom						no image
GRAPHS						
Ferrous Alloys						
iron						
iron						
iron chromium nickel						
iron chromium nickel						
iron nickel			3/24			
iron chromium nickel			May23/24			
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	5		May23/24			
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	5		Ma/23/24			
kon-ferrous Metals	3		May23/24			
Non-ferrous Metals	5		May23/24			
Non-ferrous Metals	5		May23/24			
Non-ferrous Metals	5					
Non-ferrous Metals	3					
Non-ferrous Metals	5		May23/24			
Non-ferrous Metals	5		May23/24	Acid Number		
Non-ferrous Metals	5		May23/24	Acid Number		
Non-ferrous Metals	5		May23/24	Acid Number		
Non-ferrous Metals	3		May23/24	Acid Number		
Non-ferrous Metals	3		May23/24	Acid Number		
Non-ferrous Metals	5		0.00 0 0.00 0 0.00 0 0.00 0 0.00	Acid Number		
Non-ferrous Metals	5		0.00 0 0.00 0 0.00 0 0.00 0 0.00			
Non-ferrous Metals	3		May23/24	Acid Number		
Non-ferrous Metals		red : 31	May23/24 + 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	Jan3/23	-	IG COMPAN IRFRAME D

To discuss this sample report, * - 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

Laboratory

Sample No. Lab Number **Unique Number Test Package**

Submitted By: DAN HARRIS

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