

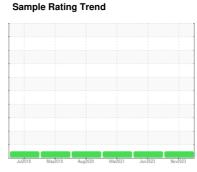
# **OIL ANALYSIS REPORT**

# SPM CRANES SPM-10.3 SOUTHEAST BRIDGE

Component

Gearbox

GEAR OIL ISO 220 (--- QTS)





### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

All component wear rates are normal.

### Contamination

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

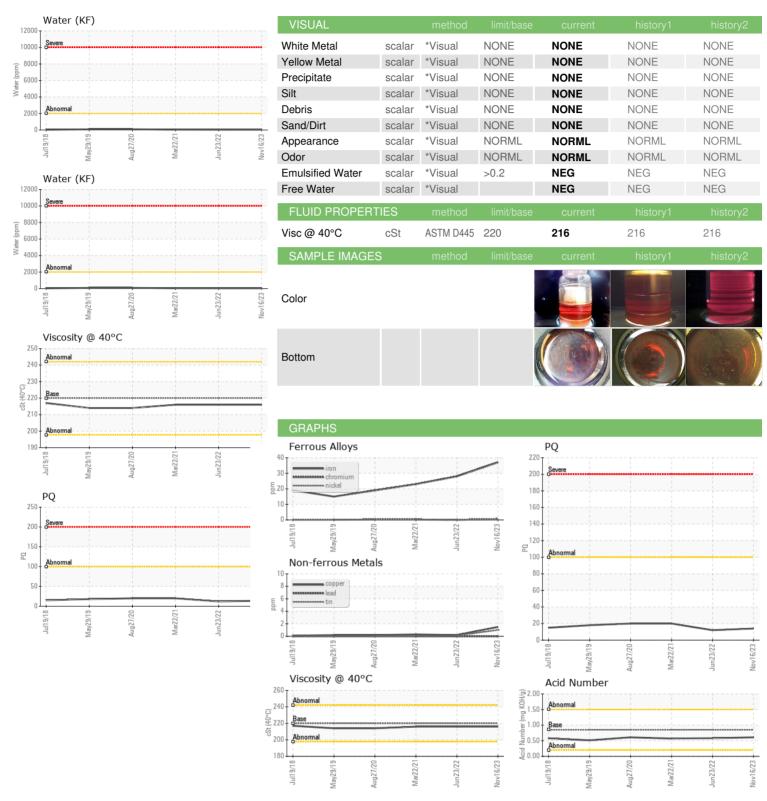
### **Fluid Condition**

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

		Jul2018	May2019 Aug2020	Mar2021 Jun2022	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039127	RP0026556	RP0014489
Sample Date		Client Info		16 Nov 2023	23 Jun 2022	22 Mar 2021
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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	12	20
Iron	ppm	ASTM D5185m	>200	37	28	23
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	11	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	<1	<1
Tin	ppm	ASTM D5185m	>25	1	<1	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	9	5	3
Barium	ppm	ASTM D5185m	15	0	<1	3
Molybdenum	ppm	ASTM D5185m	15	<1	0	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	50	0	1	1
Calcium	ppm	ASTM D5185m	50	0	7	17
Phosphorus	ppm	ASTM D5185m	350	166	296	237
Zinc	ppm	ASTM D5185m	100	0	11	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	43	42	34
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.2	0.003	0.003	0.004
ppm Water	ppm	ASTM D6304	>2000	38.3	36.2	45.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.61	0.58	0.570



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0039127 : 06011538

: 10750682

Diagnostician : Doug Bogart Test Package : IND 2 (Additional Tests: PQ)

Received

Diagnosed

: 17 Nov 2023

: 28 Nov 2023

Certificate L2367 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)

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