

PROBLEM SUMMARY

Sample Rating Trend

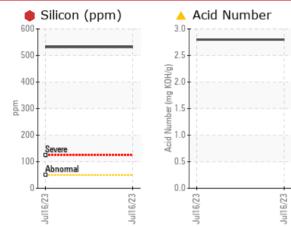
DIRT

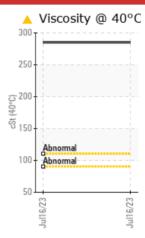
Machine Id 15 TON CRANE

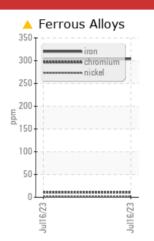
Hoisting Gearbox

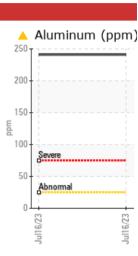
SCHAEFFER MOLY FULL SYN GEAR OIL (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

TROBELMATIO TEST RESOLTS								
Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>150	<u> </u>				
Chromium	ppm	ASTM D5185m	>10	1 1				
Titanium	ppm	ASTM D5185m		<u> </u>				
Aluminum	ppm	ASTM D5185m	>25	🔺 241				
Silicon	ppm	ASTM D5185m	>50	e 532				
Acid Number (AN)	mg KOH/g	ASTM D8045		A 2.80				
Visc @ 40°C	cSt	ASTM D445		🔺 285				

Customer Id: NATEAS Sample No.: PCA0100294 Lab Number: 05900109 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.	
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.	

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

DIRT

Machine Id 15 TON CRANE

Hoisting Gearbox

SCHAEFFER MOLY FULL SYN GEAR OIL (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

A Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

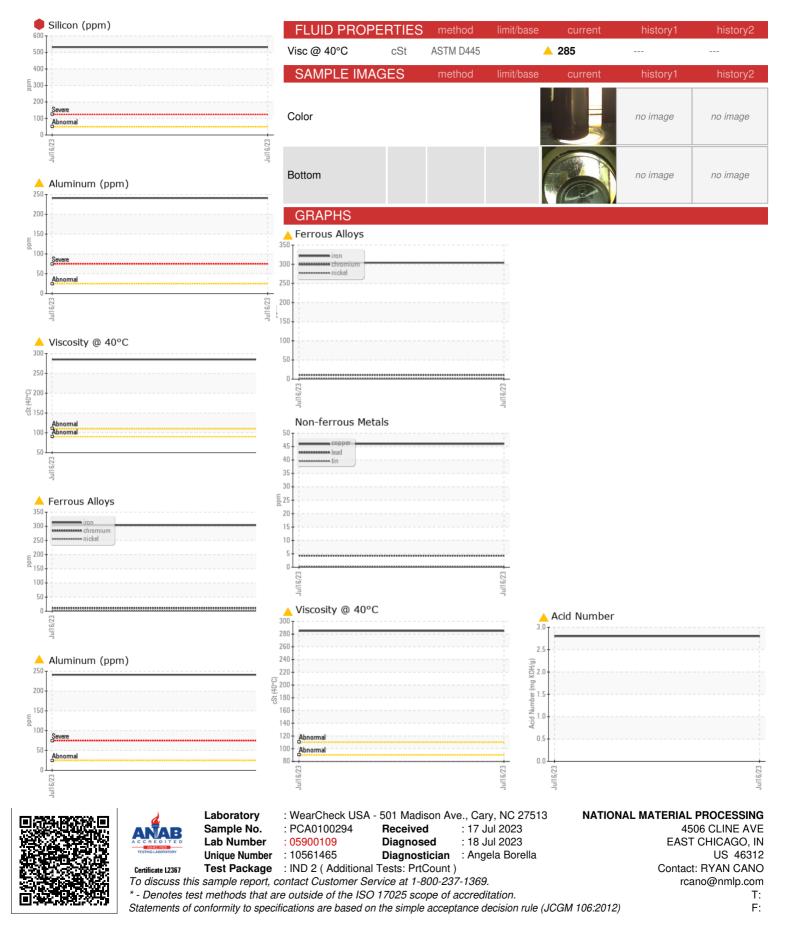
Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100294		
Sample Date		Client Info		16 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	A 304		
Chromium	ppm	ASTM D5185m	>10	🔺 11		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		<u> </u>		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>		
Lead	ppm	ASTM D5185m	>100	4		
Copper	ppm	ASTM D5185m	>50	46		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		3		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		83		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		695		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		53		
Calcium	ppm	ASTM D5185m		51		
Phosphorus	ppm	ASTM D5185m		1410		
Zinc	ppm	ASTM D5185m		711		
Sulfur	ppm	ASTM D5185m		25056		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5 32		
Sodium	ppm	ASTM D5185m		14		
Potassium	ppm	ASTM D5185m	>20	9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.80		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT



Contact/Location: RYAN CANO - NATEAS