WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

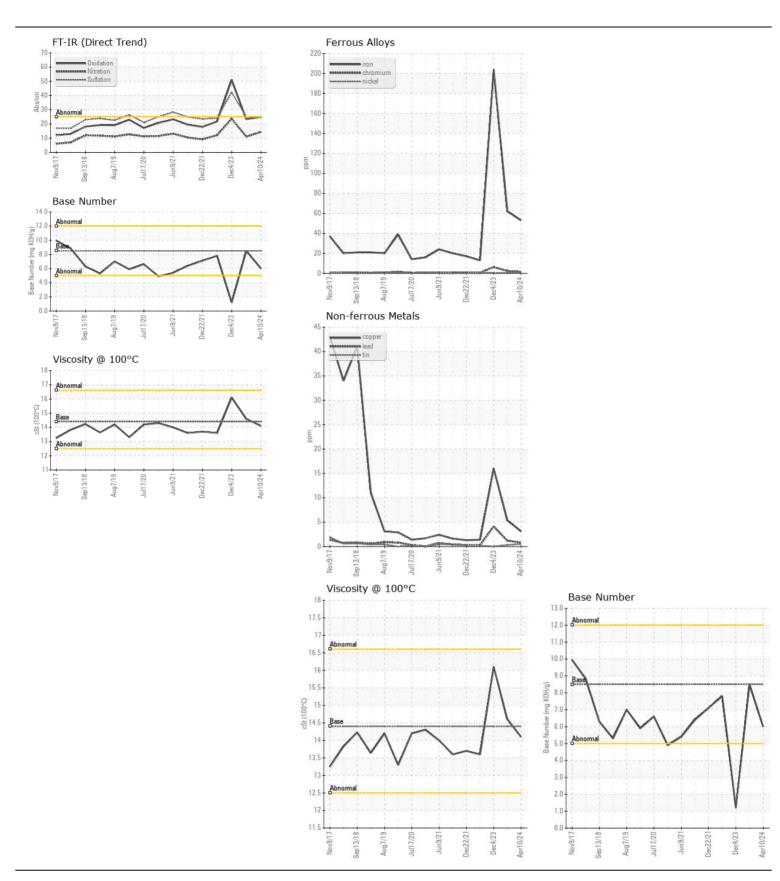
Machine Id

CRANE CARRIER 172427

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIII/ADII	WC0756859	WC0756831	WC088736
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		10 Apr 2024	13 Dec 2023	04 Dec 202
	Machine Age	mls	Client Info		80835	77219	77012
	Oil Age	mls	Client Info		3823	207	0
	Filter Age	mls	Client Info		3823	207	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>75	53	62	2 04
WEAR	Chromium	ppm	ASTM D5185m		2	2	<u></u> 6
All component wear rates are normal.	Nickel	ppm		>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		5	6	13
	Lead	ppm	ASTM D5185m		<1	1	4
	Copper	ppm	ASTM D5185m		3	5	16
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	10	20
	Potassium	ppm	ASTM D5185m		2	5	11
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.9	0.8	3
	Nitration	Abs/cm	*ASTM D7624	>20	14.4	11.0	23.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	24.7	42.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	5	7	11
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		32	58	14
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m	100	71	67	70
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		641	962	868
	Calcium	ppm	ASTM D5185m		1708	1521	1409
	Phosphorus	ppm	ASTM D5185m		985	897	866
	Zinc	ppm	ASTM D5185m		1135	1118	1060
	Sulfur	ppm	ASTM D5185m		3458	3570	2678
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		24.9	23.3	51.0
	Base Number (BN)	ma KUH/a	ASTIVI D2896	8.5	6.0	8.5	<u>1.2</u>







Certificate L2367

Laboratory Sample No.

: WC0756859 Lab Number : 06150061 Unique Number: 10980139 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024

Tested Diagnosed

: 17 Apr 2024 : 17 Apr 2024 - Wes Davis

CITY OF GREENSBORO 401 PATTON AVE - BUILDING H

GREENSBORO, NC US 27406

Contact: JERRY GUNTER

jerry.gunter@greensboro-nc.gov T: x:

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)

F: x: