

Machine Id **CRANE CARRIER 182393** Component **Diesel Engine** Filuid **DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0934384	WC0887358	WC0847874
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		17 Apr 2024	06 Dec 2023	16 Aug 2023
	Machine Age	mls	Client Info		53720	49673	45573
	Oil Age	mls	Client Info		4047	0	3944
	Filter Age	mls	Client Info		4047	0	3944
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	13	7	8
	Chromium	ppm	ASTM D5185m		<1	<1	0
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	1	<1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0'''			05	•		4
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method	>20 >3.0	3	<1.0	2 <1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.2	10.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.5	21.0	20.1
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Codium			. 150		E	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		4	5	5
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		35 <1	75 0	25 0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm ppm	ASTM D5185m		<1 52	51	50
	Manganese	ppm	ASTM D5185m	100	52 <1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	659	674	753
	Calcium	ppm	ASTM D5185m		1289	1276	1203
	Phosphorus	ppm	ASTM D5185m		680	801	652
	Zinc	ppm	ASTM D5185m		923	997	844
	Sulfur	ppm	ASTM D5185m		2472	2649	2609
	Oxidation	Abs/.1mm	*ASTM D7414		19.4	18.7	18.3
			10TH DOGT				

7.6

13.5

7.4

13.2

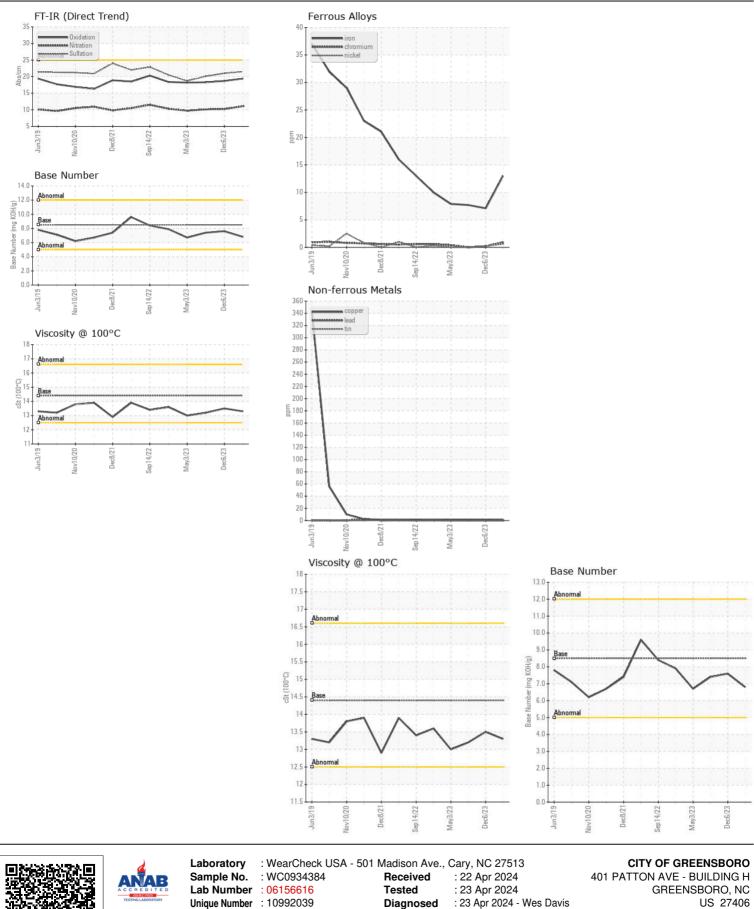
6.8

13.3

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt



Certificate L2367 Test Package : FLEET To discuss this sample report. contact (

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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