

## TAREA [74852 LAKE CONWAY] Machine Id TAKEUCHI TB223 122600181

Component Diesel Engine

## DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DILJEL ENGINE OIL JAL IJW40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP445675	VCP389614	VCP340453
	Sample Date		Client Info		18 Feb 2024	21 Oct 2022	21 Jul 2022
	Machine Age	hrs	Client Info		811	366	269
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	51	22	66
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	21	0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	5	10
	Lead	ppm	ASTM D5185m		0	0	1
	Copper	ppm	ASTM D5185m		2	2	16
	Tin	ppm		>15	- <1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	17	69
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	3
	Fuel		WC Method	>5	<1.0	<1.0	0.3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.9	7.7
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	23.0	19.6
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	4	4	21
	Boron	ppm	ASTM D5185m	250	11	54	59
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m	10	0	0	14
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m	100	12	45	103
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	84	472	131
	Calcium	ppm	ASTM D5185m	3000	2224	1812	3882
	Phosphorus	ppm	ASTM D5185m	1150	851	894	1148
	Zinc	ppm	ASTM D5185m	1350	972	1091	1388
	Sulfur	ppm	ASTM D5185m	4250	3231	3350	7137
	O distant	AL / 4	****	0.5	10 -	00.0	10.0

Oxidation

Visc @ 100°C cSt

20.9

13.1

11.9

13.5

6.7

13.1

Abs/.1mm \*ASTM D7414 >25

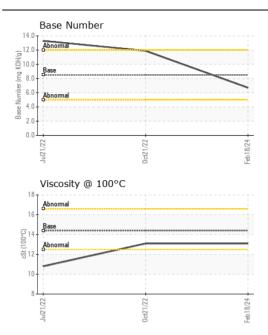
ASTM D445 14.4

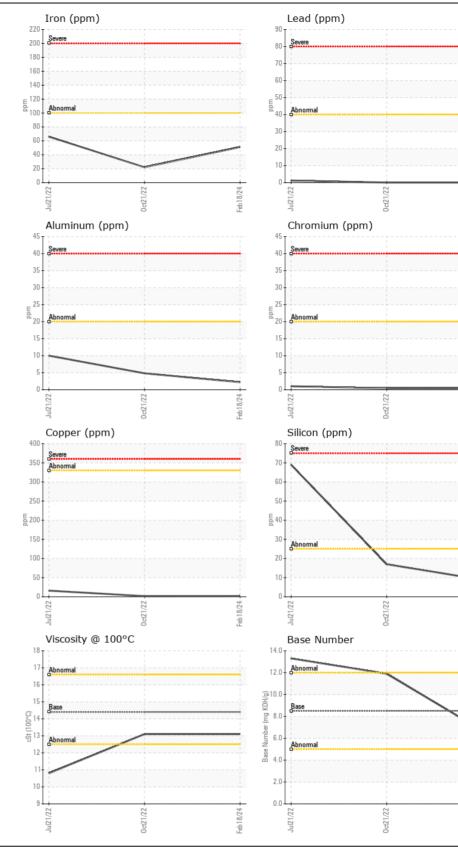
Base Number (BN) mg KOH/g ASTM D2896 8.5

12.8

**1**0.8

13.3





ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP445675 Received 8418 PALM RIVER ROAD : 23 Feb 2024 Lab Number : 06098212 TAMPA, FL Tested : 25 Feb 2024 Unique Number : 10896442 : 25 Feb 2024 - Wes Davis US 33619 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233

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