WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ATTENTION

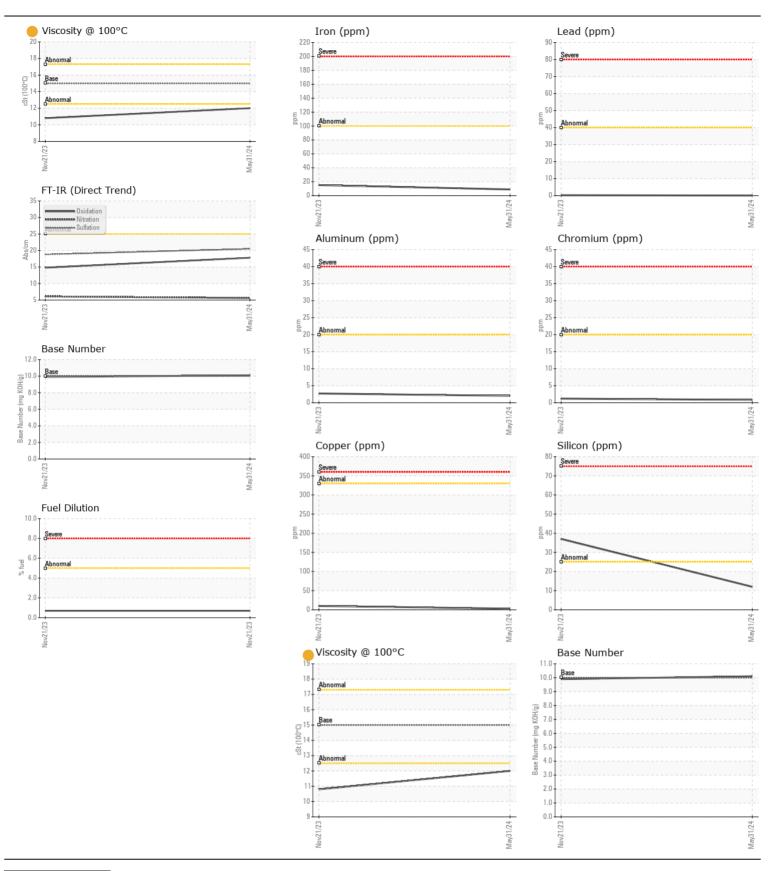
Machine Id

TORO TX1000W DINGO 412804081

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP441329	VCP434292	
	Sample Date		Client Info		31 May 2024	21 Nov 2023	
	Machine Age	hrs	Client Info		195	125	
	Oil Age	hrs	Client Info		195	125	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	9	15	
EAIT	Chromium	ppm	ASTM D5185m		<1	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	74	<1	0	
	Silver		ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
		ppm					
	Lead	ppm	ASTM D5185m ASTM D5185m		0	<1	
	Copper	ppm			3	10	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	37	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	0	
	Fuel	%	ASTM D3524	>5	<1.0	0.7	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	18.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	nnm	ASTM D5185m		1	2	
ESIB-SONDITION	Boron	ppm	ASTM D5185m	2.5	64	3	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	2	
	Molybdenum	ppm	ASTM D5185m		45	58	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		538	890	
	Calcium	ppm	ASTM D5185m		1564	1230	
	Phosphorus	ppm	ASTM D5185m		970	1037	
	Zinc		ASTM D5185m			1173	
	Sulfur	ppm	ASTM D5185m		1126 3325	3128	
	Oxidation	ppm Abs/.1mm	*ASTM D7414		3325 17.8	14.8	
	Base Number (BN)				17.8	9.9	
	Dase Mulliber (DIV)	IIIU NUT/0	49 I W D2090	10	10.1	5.5	





Unique Number: 11059530

Laboratory Sample No.

Lab Number : 06197407

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP441329

Received **Tested**

Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, TBN)

: 03 Jun 2024 : 04 Jun 2024

: 04 Jun 2024 - Sean Felton

ALTA EQUIPMENT COMPANY 5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL

US 33905 Contact: TODD LARK tlark@altaequipfl.com

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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