CONST	ASCENDUM
	OIL ANALYSIS REPORT

Area



Ascendum Machinery/250 Hour CSA Machine Id CATERPILLAR D5M 1657 (S/N 3DR00800) Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0007332	VCP0007062	VCP0002293
Resample at the next service interval to monitor.	Sample Date		Client Info		23 Apr 2024	06 Feb 2023	24 Jun 2022
	Machine Age	hrs	Client Info		1000	750	500
	Oil Age	hrs	Client Info		250	250	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	22	11
	Chromium	ppm	ASTM D5185m	>20	0	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	15	2
	Lead	ppm	ASTM D5185m	>40	0	2	1
	Copper	ppm	ASTM D5185m	>330	0	7	4
	Tin	ppm	ASTM D5185m	>15	<1	1	1
	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	5	21	4
	Potassium	ppm	ASTM D5185m	>20	<1	2	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.2	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	18.3	22.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	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		<1	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		86	7	27
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		41	60	53
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		459	849	741
	Calcium	ppm	ASTM D5185m		1795	1159	1412
	Phosphorus	ppm	ASTM D5185m		1029	1022	956
	Zinc	ppm	ASTM D5185m		1168	1216	1216
	Sulfur	ppm	ASTM D5185m		3600	2951	2932
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	14.4	19.7
	Base Number (BN)	mg KOH/g	ASTM D2896		9.6	9.5	9.8
		<u> </u>	AOTH DAAF			1	

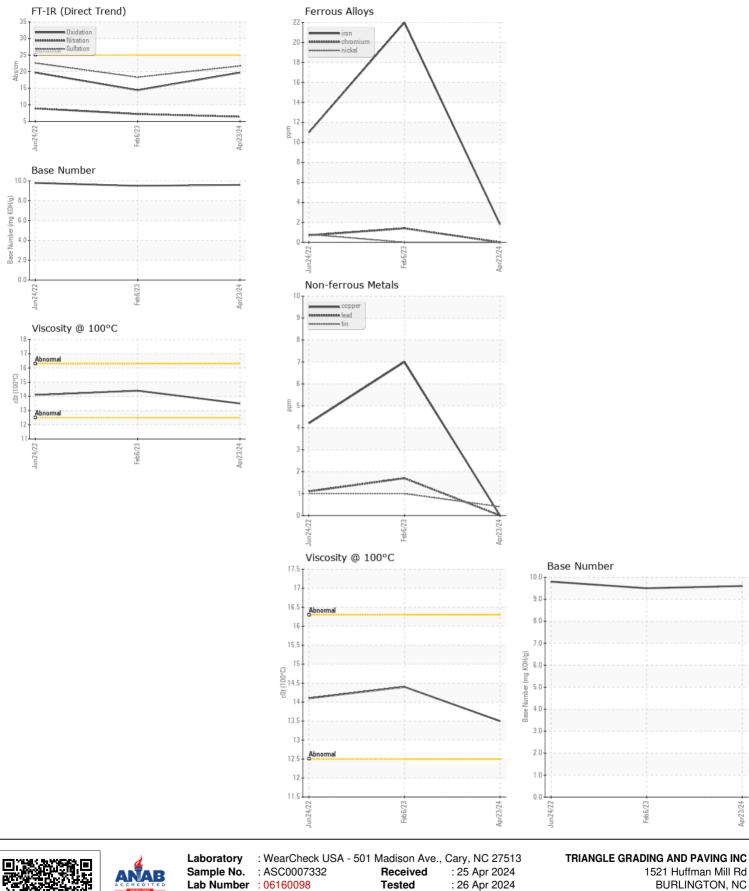
Visc @ 100°C cSt

ASTM D445

14.4

14.1

13.5



Unique Number : 10995521 Diagnosed : 26 Apr 2024 - Wes Davis US 27216 Test Package : CONST (Additional Tests: TBN) Contact: ADAM CORBETT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wacorbett@trianglegradingpaving.com * - 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: (336)584-0145

Submitted By: KARRINGTON RENDLEMAN Page 2 of 2

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