

Area Ascendum Machinery/250 Hour CSA Machine Id KUBOTA KX161-3S 1388 (S/N 30569)

Component Diesel Engine

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

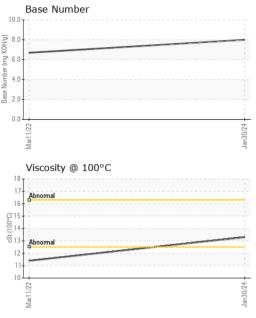
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001610	VCP0000937	
	Sample Date		Client Info		30 Jan 2024	11 Mar 2022	
	Machine Age	hrs	Client Info		500	56	
	Oil Age	hrs	Client Info		444	56	
	Filter Age	hrs	Client Info		0	56	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>100	54	163	
	Chromium	ppm	ASTM D5185m	>20	2	6	
	Nickel	ppm	ASTM D5185m	>4	2	2	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	7	16	
	Lead	ppm	ASTM D5185m	>40	1	<1	
	Copper	ppm	ASTM D5185m	>330	2	18	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	19	
	Potassium	ppm	ASTM D5185m	>20	4	4	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	0.9	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	12.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	26.6	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	4	
	Boron	ppm	ASTM D5185m		33	17	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		48	39	
	Manganese	ppm	ASTM D5185m		1	3	
	Magnesium	ppm	ASTM D5185m		747	899	
	Calcium	ppm	ASTM D5185m		1591	1817	
	Phosphorus	ppm	ASTM D5185m		1129	1146	
	Zinc	ppm	ASTM D5185m		1349	1521	
	Sulfur	ppm	ASTM D5185m		3115	3262	
	Oxidation	Abs/.1mm	*ASTM D310311	>25	19.2	20.8	
	Base Number (BN)			-20	8.0	6.7	
	Base Hamber (BN)	ing noning	1011102000		0.0	0.7	

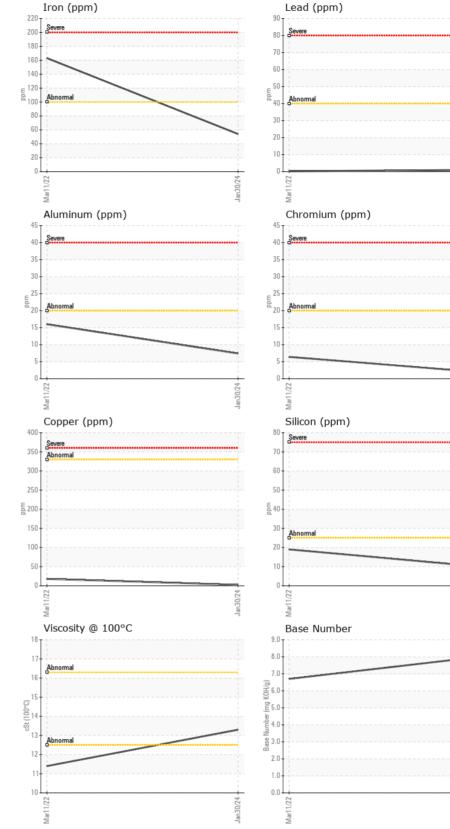
Visc @ 100°C cSt

ASTM D445

▲ 11.4

13.3





TRIANGLE GRADING AND PAVING INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 31 Jan 2024 1521 Huffman Mill Rd : ASC0001610 Lab Number : 01 Feb 2024 BURLINGTON, NC : 06075527 Diagnosed : 10857618 Diagnostician : Wes Davis **Unique Number** US 27216 Test Package : MOBCE (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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)584-0145

Submitted By: KARRINGTON RENDLEMAN