WEAR CONTAMINATION FLUID CONDITION

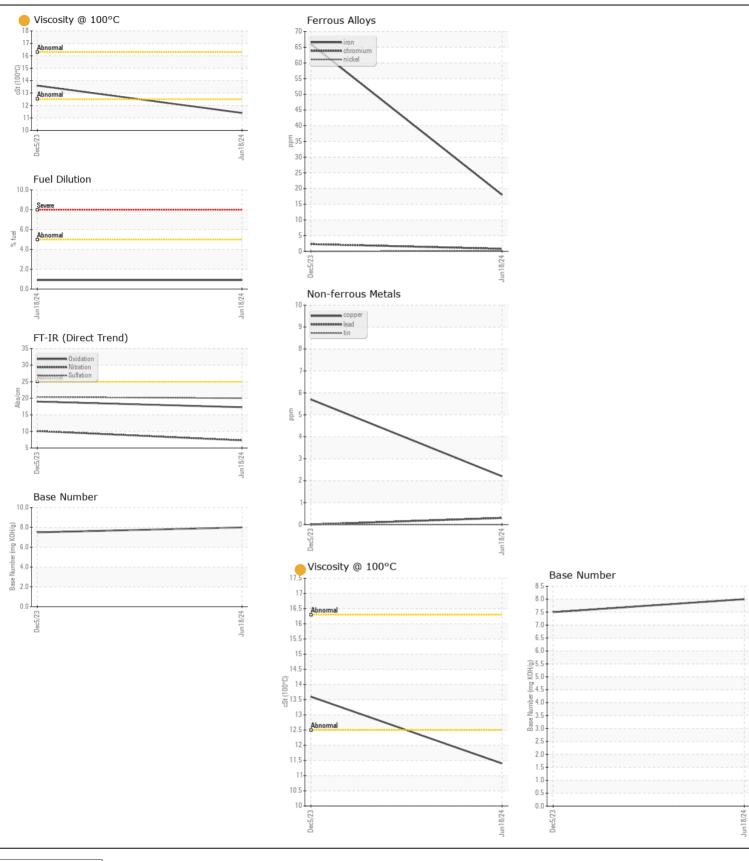
NORMAL NORMAL ATTENTION

Ascendum Machinery/250 Hour CSA

KLEEMANN KT 80-2 2246 (S/N Z008.0640/173151-FSC-T-80-2020)

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0009745	ASC0005117	
	Sample Date		Client Info		18 Jun 2024	05 Dec 2023	
	Machine Age	hrs	Client Info		958	958	
	Oil Age	hrs	Client Info		958	958	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	NORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	18	66	
	Chromium	ppm	ASTM D5185m		<1	2	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	3	
	Aluminum	ppm	ASTM D5185m		4	8	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	0.00		AOTA DEADE	05		4.5	
CONTAMINATION	Silicon	ppm	ASTM D5185m		16	15	
Fuel content negligible. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		4	0	
	Fuel	%		>5	0.9	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot % Nitration	% A b a /ava	*ASTM D7844 *ASTM D7624		0.3	0.5 10.1	
		Abs/cm		>20	7.3	20.4	
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		20.0 NONE	NONE	
	Debris	scalar		NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
<u></u>		Scalai	Visuai	>0.2			
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	5	
	Boron	ppm	ASTM D5185m		31	1	
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	0	
	Molybdenum	ppm	ASTM D5185m		34	63	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		449	971	
	Calcium	ppm	ASTM D5185m		1319	1188	
	Phosphorus	ppm	ASTM D5185m		832	1057	
	Zinc	ppm	ASTM D5185m		1058	1303	
	Sulfur	ppm	ASTM D5185m		2512	2462	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	19.0	
	Base Number (BN)		ASTM D2896	-	8.0	7.5	
	> (=11)	99	ASTM D445		11.4	13.6	







Laboratory Sample No.

Lab Number : 06216551 Unique Number : 11089415

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0009745

Tested Diagnosed

Received : 21 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Sean Felton

TRIANGLE GRADING AND PAVING INC 1521 Huffman Mill Rd

BURLINGTON, NC US 27216

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: KAREN HILLIARD Certificate L2367 khilliard@trianglegradingpaving.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. T: (336)584-1745

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)584-0145

Submitted By: KARRINGTON RENDLEMAN