WEAR CONTAMINATION **FLUID CONDITION**

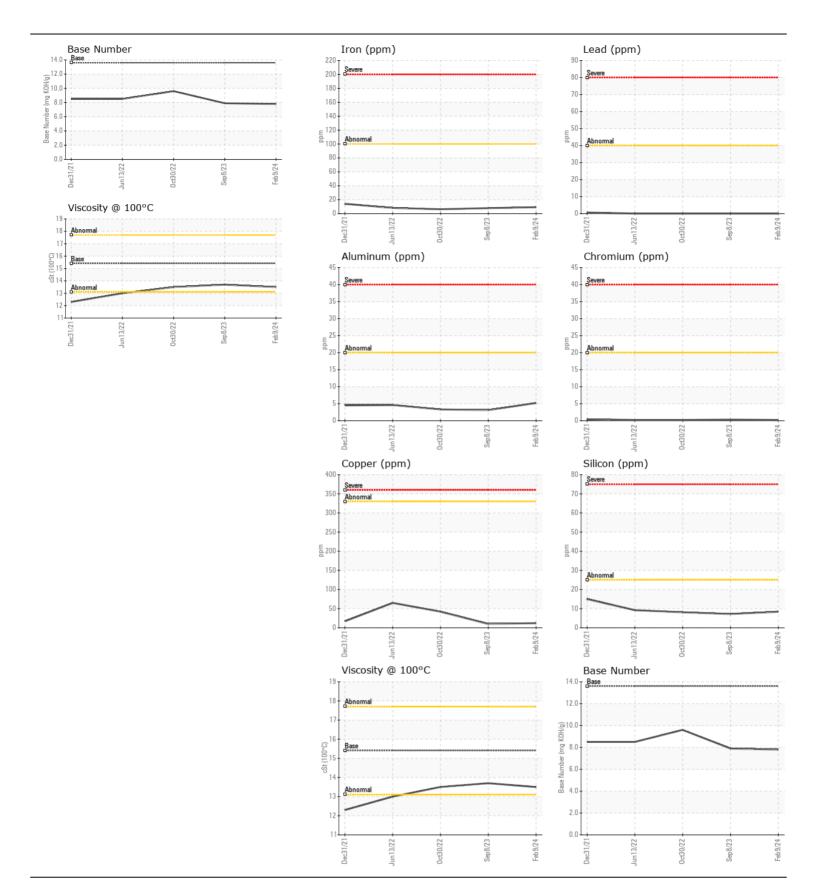
NORMAL NORMAL NORMAL

[W8459]

HITACHI 160LC-6 1FFDBP70AMF240388

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W8459)	Sample Number		Client Info		JR0197168	JR0180253	JR0149922
	Sample Date		Client Info		09 Feb 2024	08 Sep 2023	30 Oct 202
	Machine Age	hrs	Client Info		2015	1830	1467
	Oil Age	hrs	Client Info		500	400	462
	Filter Age	hrs	Client Info		500	400	462
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>100	9	8	6
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	5	3	3
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	12	10	42
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	\25	8	7	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		5	2	2
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.1	0.7	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.7	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	26.1	24.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	0 - 45		AOTA DEADE		• • • • • • • • • • • • • • • • • • • •		
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	011
he BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		267	257	214
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		290	258	256
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		863	860	824
	Calcium	ppm	ASTM D5185m		1456	1530	1530
	Phosphorus	ppm	ASTM D5185m		877	928	898
	Zinc	ppm	ASTM D5185m		1145	1139	1126
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 25	2849	3552	3267
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		16.7 7.8	19.9 7.9	18.4 9.6
		ma ki ihia	A STIMITIZEDA	136	/ X	/ 4	4 h







Laboratory

Sample No.

: JR0197168 Lab Number : 06087095

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

Received **Tested** Unique Number : 10874540

Diagnosed Test Package: MOBCE (Additional Tests: TBN)

: 13 Feb 2024 : 14 Feb 2024 : 14 Feb 2024 - Don Baldridge

5039 HWY 301 SOUTH HOPE MILLS, NC US 28348

Contact: FAYETTEVILLE SHOP

To discuss this sample report, contact Customer Service at 1-800-237-1369.

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

JRE - HOPE MILLS/FAYETTEVILLE

* - 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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