WEAR CONTAMINATION FLUID CONDITION

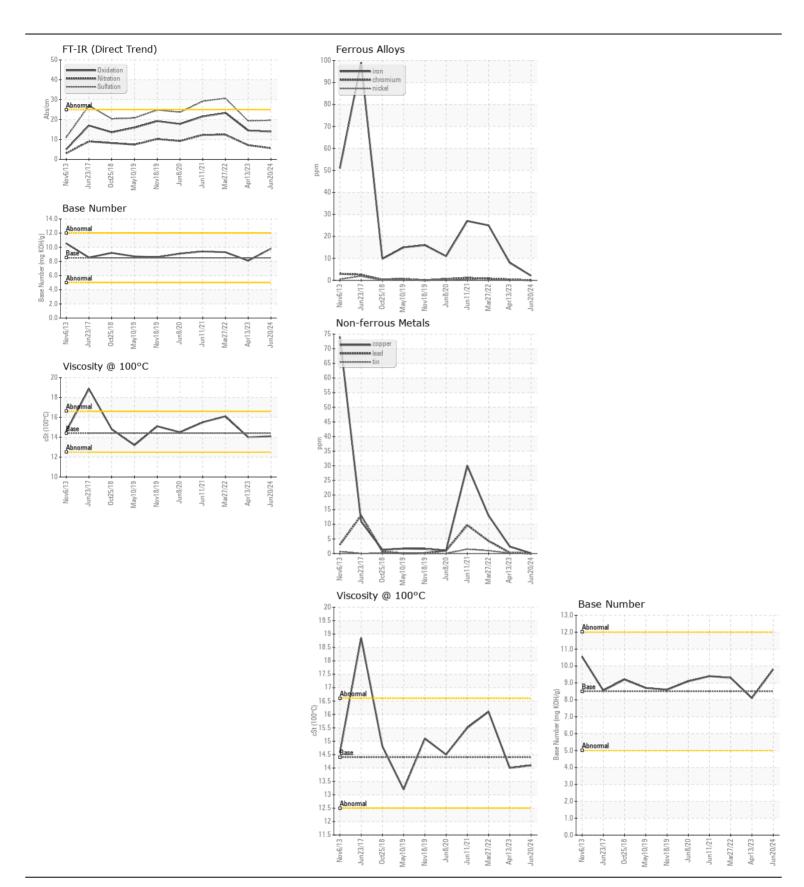
NORMAL NORMAL

[W67965]

SAKAI SV510T VSV21-10328

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (3 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0205733	JR0162486	JR0113924
Resample at the next service interval to monitor. (Customer Sample Comment: W67965)	Sample Date		Client Info		20 Jun 2024	13 Apr 2023	27 Mar 2022
	Machine Age	hrs	Client Info		5826	5513	5408
	Oil Age	hrs	Client Info		313	0	0
	Filter Age	hrs	Client Info		0	0	0
	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	8	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	<1	4
	Lead	ppm	ASTM D5185m	>40	0	<1	4
	Copper	ppm	ASTM D5185m	>330	<1	2	13
	Tin	ppm	ASTM D5185m	>15	0	<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	6	7	9
	Potassium	ppm	ASTM D5185m	>20	<1	1	1
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.6	2.4
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.1	12.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.3	30.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	2	5
	Boron	ppm	ASTM D5185m	250	245	283	151
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	0	2	0
	Molybdenum	ppm	ASTM D5185m	100	227	244	254
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	795	727	905
	Calcium	ppm	ASTM D5185m	3000	1414	1313	1615
	Phosphorus	ppm	ASTM D5185m	1150	919	829	928
	Zinc	ppm	ASTM D5185m	1350	1104	973	1114
	Sulfur	ppm	ASTM D5185m	4250	3596	2975	2445
	Oxidation	Abs/.1mm	*ASTM D7414		13.9	14.5	23.3
	Base Number (BN)				9.8	8.1	9.3
	Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.0	16.1







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0205733 Lab Number : 06218002 Unique Number: 11096199

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.

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com T: (704)597-0211

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198