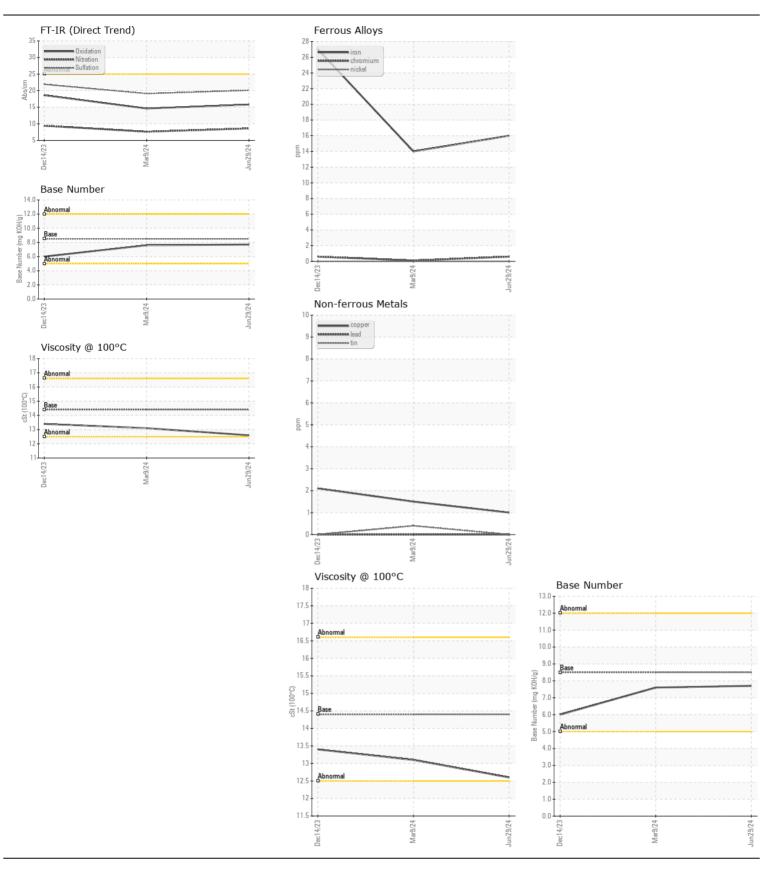
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	JOIVI	Client Info	LIIIII/AUII	LH0244797	,	LH024484
	Sample Date		Client Info		29 Jun 2024	09 Mar 2024	14 Dec 2020
	Machine Age	hrs	Client Info		4907	4046	3388
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	500	0
	Oil Changed	1110	Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status		Onone inio		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	16	14	27
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	1	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	3	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	2
	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		0.5	0.3	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.6	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	19.1	21.9
	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	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the	Sodium	ppm	ASTM D5185m		<1	2	7
	Boron	ppm	ASTM D5185m		5	8	56
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	59	82
	Manganese	ppm	ASTM D5185m	4.5	0	<1	<1
	Magnesium	ppm	ASTM D5185m		958	895	508
	Calcium	ppm	ASTM D5185m		1164	1167	2300
	Phosphorus	ppm	ASTM D5185m		1052	1016	1149
	Zinc	ppm	ASTM D5185m		1273	1242	1615
	Sulfur	ppm	ASTM D5185m		2562	3285	4233
	Oxidation	Abs/.1mm	*ASTM D7414		15.8	14.6	18.6
	Base Number (BN)				7.7	7.6	6.0
	Visc @ 100°C	cSt	ASTM D445	1/1/	12.6	13.1	13.4







Laboratory Sample No. Unique Number : 11123533

Lab Number : 06234699

: LH0244797

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.

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

: 15 Jul 2024 Diagnosed

: 15 Jul 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

: 12 Jul 2024

US 47904 Contact: JAYSON FRAZIER frazierj@oscarwinski.com T: (765)376-1230

OSCAR WINSKI CO. INC

2407 N. 9TH STREET

LAFAYETTE, IN

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: