

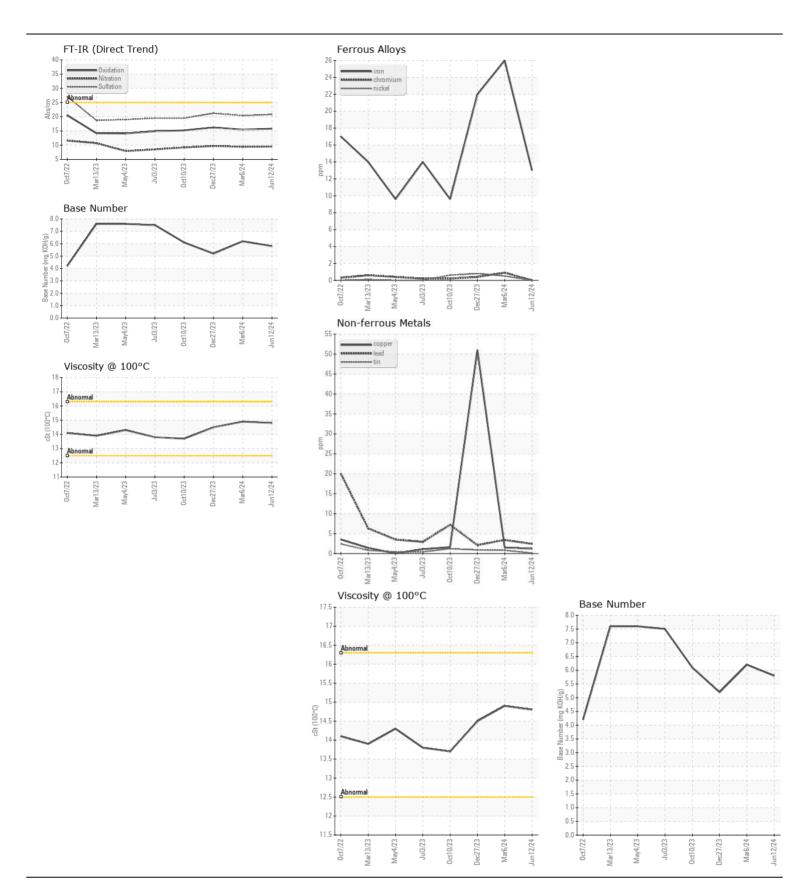
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

BALER
Machine Id
HYSTER F422

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0916580	WC0902261	WC087024
	Sample Date		Client Info		12 Jun 2024	06 Mar 2024	27 Dec 202
	Machine Age	hrs	Client Info		11368	11170	10979
	Oil Age	hrs	Client Info		198	191	214
	Filter Age	hrs	Client Info		198	191	214
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	13	26	22
WLAN	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	77	77	79	58
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	5
	Lead	ppm	ASTM D5185m		2	3	2
	Copper	ppm	ASTM D5185m		1	2	51
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTA DEADE	05			
	Silicon	ppm	ASTM D5185m		6	9	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	4	11
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	. 2	0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.4	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	20.4	21.2
	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	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THUR CONDITION	· · · · · · · · · · · · · · · · · · ·		AOTA DE LOS	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>150	2	1	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		71	91	55
	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		10	16	22
	Manganese	ppm	ASTM D5185m		<1 488	<1	0
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		488 1653	528 1677	586 1361
	Phosphorus	ppm	ASTM D5185m		941	937	858
	Zinc	ppm	ASTM D5185m		1228	1239	1173
	Sulfur	ppm	ASTM D5185m		4250	3848	3372
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.8	15.5	16.2
	Base Number (BN)		ASTM D2896	720	5.8	6.2	5.2
		THIN I LOT II U	. 10 1111 D2000		U.U	0.2	0.2







Certificate L2367

Laboratory Sample No.

Lab Number : 06220662

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0916580

Received **Tested** Diagnosed : 26 Jun 2024

: 27 Jun 2024

Unique Number : 11098859 : 27 Jun 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

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.

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

METRO METALS NORTHWEST INC

2202 EAST RIVER ST TACOMA, WA

US 98421

Contact: MICHELE MARTINEZ mmartinez@metrometalswa.com

T: (800)562-8464 F: