**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE NORMAL NORMAL** 

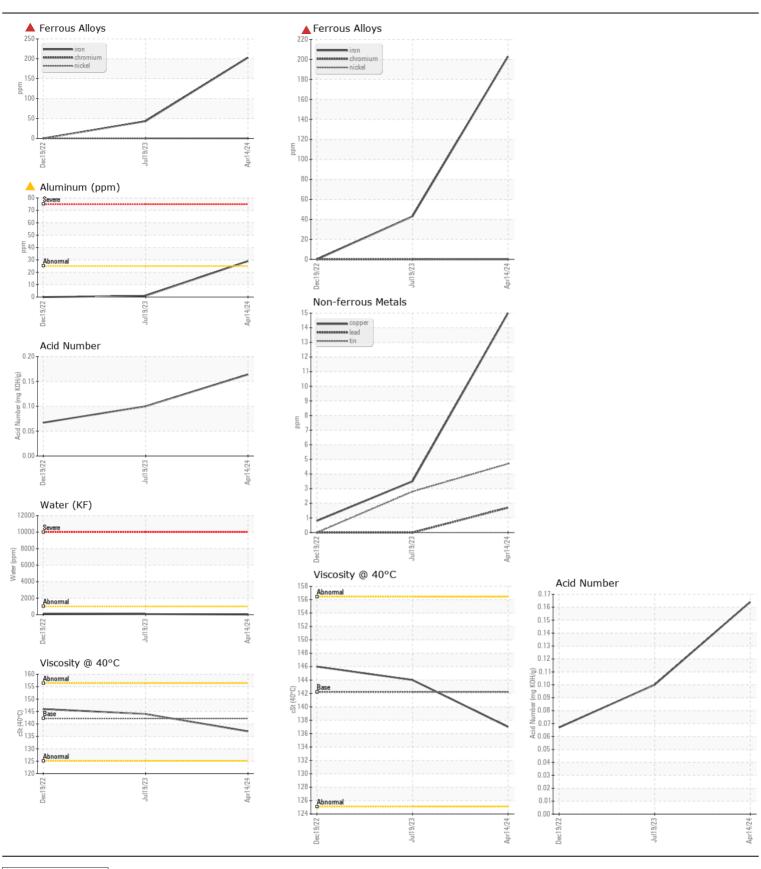
## NAPHTHA UNIFINER [1083321]

## [NAPHTHA UNIFINER] NAPU-C-0001 COMPRESSOR, RECYCLE HYDROGEN

Compressor

RFI RAY Turbine Oil 150 (--- QTS)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0042801	RP0034784	RP0031592
Sample Date		Client Info		14 Apr 2024	19 Jul 2023	19 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Change
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMA
Iron	ppm	ASTM D5185m	>50	<b>203</b>	43	0
						0
						0
Titanium				0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u>^</u> 29	1	0
Lead	ppm	ASTM D5185m	>25	2	0	0
Copper	ppm	ASTM D5185m	>50	15	4	<1
Tin	ppm	ASTM D5185m	>15	5	3	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nom	ASTM D5185m	>25	5	2	0
						0
						0.013
						138.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	7	0
Boron				0	0	0
Barium		ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	<1
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m		4	6	3
Calcium	ppm	ASTM D5185m		22	17	16
		4.0TM DE (05		20	20	29
Phosphorus	ppm	ASTM D5185m		28	32	
	ppm ppm	ASTM D5185m ASTM D5185m		7	10	8
Phosphorus	ppm	ASTM D5185m				
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water  Sodium Boron Barium Molybdenum Manganese	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water % ppm Water ppm Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm	Sample Number Sample Date Client Info Machine Age Ins Client Info Oil Age Ins Client Info Client Info Client Info Client Info Client Info Filter Age Ins Client Info Sample Status  Iron Ins Chromium Ins	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Client Info Oil Age hrs Client Info Filter Age hrs Client Info Client Info Client Info Client Info Filter Changed Sample Status  Iron Ppm ASTM D5185m Chromium Ppm ASTM D5185m Titanium Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m ASTM D6304 ASTM D6305 Barium ASTM D6305	Sample Number         Client Info         RP0042801           Sample Date         Client Info         14 Apr 2024           Machine Age         hrs         Client Info         0           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         Not Changd           Oil Changed         Client Info         N/A         N/A           Sample Status         SEVERE           Iron         ppm         ASTM D5185m         >50         ▲ 203           Chromium         ppm         ASTM D5185m         >10         0           Nickel         ppm         ASTM D5185m         >10         0           Nickel         ppm         ASTM D5185m         >10         0           Silver         ppm         ASTM D5185m         >25         ▲ 29           Lead         ppm         ASTM D5185m         >25         ▲ 29           Lead         ppm         ASTM D5185m         >25         ▲ 29           Lead         ppm         ASTM D5185m         >50         15           Tin         ppm         ASTM D5185m         >50         15           Vanadium         ppm         ASTM D5185m<	Sample Number         Client Info         RP00342801         RP0034784           Sample Date         Client Info         14 Apr 2024         19 Jul 2023           Machine Age         hrs         Client Info         0         0           Oil Age         hrs         Client Info         0         0           Oil Changed         Client Info         Not Changd         N/A         N/A           Filter Changed         Client Info         N/A         N/A         N/A           Sample Status         SEVERE         N/A         N/A         N/A           Iron         ppm         ASTM D5185m         >50         ▲ 203         43           Chromium         ppm         ASTM D5185m         >10         0         0           Nickel         ppm         ASTM D5185m         >10         0         0           Silver         ppm         ASTM D5185m         >25         29         1           Lead         ppm         ASTM D5185m         >25         2         0           Copper         ppm         ASTM D5185m         >50         15         4           Tin         ppm         ASTM D5185m         >55         2         0







Certificate L2367

Laboratory Sample No.

: RP0042801 Lab Number : 06153203 Unique Number : 10983281 Test Package : IND 2

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

: 19 Apr 2024 Diagnosed

3333 MIDWAY AVENUE : 18 Apr 2024 SHREVEPORT, LA : 23 Apr 2024 - Jonathan Hester US 71109 Contact: NICHOLAS LESAGE

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)

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T: F:

**CALUMET**