WEAR CONTAMINATION FLUID CONDITION

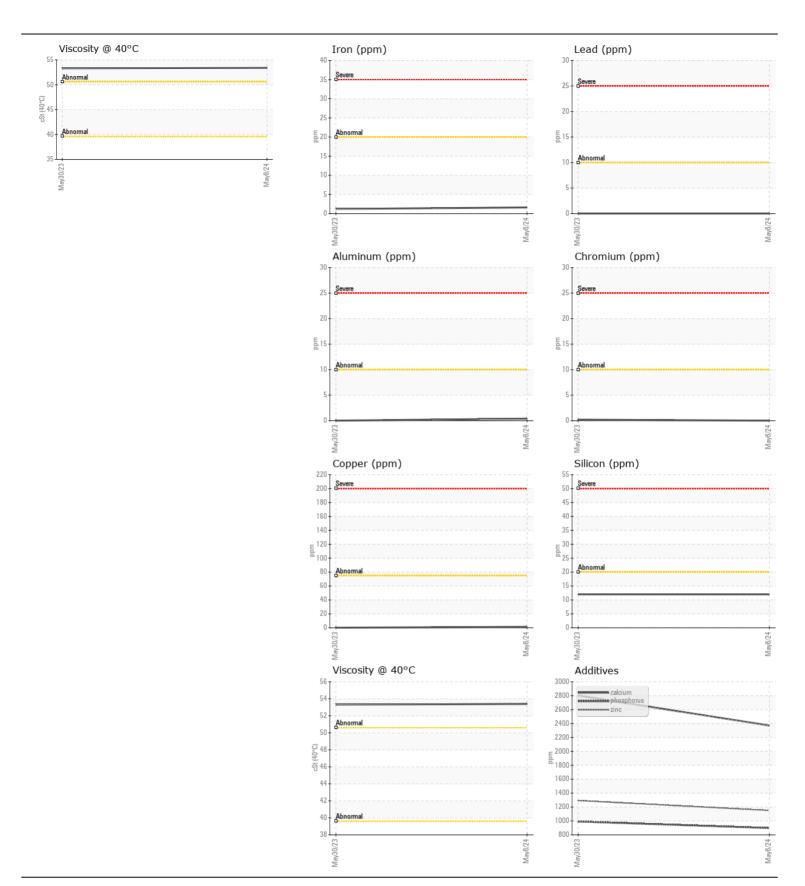
NORMAL NORMAL

Machine Id

NATIONAL NTC60XL 10606R (S/N 302327)

Component Hydraulic System

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034182	DC0026748	
Sample Date		Client Info		08 May 2024	30 May 2023	
Machine Age	hrs	Client Info		0	442	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
Iron	nnm	ASTM D5185m	>20	2	1	
			>10			
-			>10			
			710			
			NONE			
Silicon	ppm	ASTM D5185m	>20	12	12	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water		WC Method	>0.1	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		8	8	
Boron	ppm	ASTM D5185m		90	98	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		<1	<1	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		13	15	
Calcium	ppm	ASTM D5185m		2372	2801	
Phosphorus	ppm	ASTM D5185m		898	992	
	20100	ASTM D5185m		1151	1293	
Zinc	ppm	ASTIVI DSTOSIII		1131	1200	
Zinc Sulfur	ppm	ASTM D5185m		3514	3497	
	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 Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	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 Silt scalar Debris scalar Sand/Dirt scalar Sand/Dirt scalar Sand/Dirt scalar Sodium ppm Boron ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Ca	Sample Number Sample Date Machine Age Oil Age hrs Client Info Sample Status Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Titanium ppm ASTM D5185m Aluminum ppm ASTM D5185m Copper ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m Visual Yellow Metal Scalar *Visual Yellow Metal Scalar *Visual Silicon ppm ASTM D5185m Water WC Method Silt Scalar *Visual Sand/Dirt Scalar *Visual Sand/Dirt Scalar *Visual Sand/Dirt Scalar *Visual Scalar *Visual Sand/Dirt Scalar *Visual Scalar *Visual Sand/Dirt Scalar *Visual Scalar *Visual Appearance Scalar *Visual Scalar *Visual Scalar *Visual Scalar *Visual Appearance Scalar *Visual Scalar *Visual Appearance Scalar *Visual Appearance Scalar *Visual Scalar *Appearance Scalar *Visual Appearance Scalar *Visual Appearance Scalar *Visual Scalar *Appearance Scalar *Visual Appearance Scalar *Aunuinum Appearance Scalar *Visual Appearance Scalar *Aunuinum Appearance Scalar *Aunuinum Appearance Scalar *Aunuinum Appearance Scalar *Aunuinum Appearance Appearanc	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age Oil Changed Filter Changed Sample Status Iron Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m ASTM D5185m Aluminum Ppm ASTM D5185m Barium ASTM D5185m ASTM D5185m Barium ASTM D5185m	Sample Number Client Info DC0034182 Sample Date Client Info 08 May 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info Not Changd Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NORMAL Iron ppm ASTM D5185m >20 2 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 <td>Sample Number Client Info DC0034182 DC0026748 Sample Date Client Info 08 May 2024 30 May 2023 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info Not Changd Not Changd Filter Changed Client Info Not Changd Not Changd Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >20 2 1 Chromium ppm ASTM D5185m >10 0 <1</td> Nickel ppm ASTM D5185m >10 0 <1	Sample Number Client Info DC0034182 DC0026748 Sample Date Client Info 08 May 2024 30 May 2023 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info Not Changd Not Changd Filter Changed Client Info Not Changd Not Changd Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >20 2 1 Chromium ppm ASTM D5185m >10 0 <1





Certificate L2367

Report Id: CRAASHSP [WUSCAR] 06211004 (Generated: 06/17/2024 20:41:42) Rev: 1

Laboratory

Sample No.

: DC0034182 Lab Number : 06211004 Unique Number: 11083868 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** : 17 Jun 2024

: 17 Jun 2024 - Wes Davis Diagnosed

CRANEWORKS INC - SPECIAL PROJECTS

11089 LEADBETTER ROAD ASHLAND, VA

US 23005 Contact: JOSH DIXON

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

jdixon@vacraneworks.com T:

* - 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)

Contact/Location: JOSH DIXON - CRAASHSP

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