



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**LINKBELT 350X4EX 3830332**

Component  
**Hydraulic System**

Fluid  
**CHEVRON CLARITY HYDRAULIC AW 68 (--- LTR)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0825190</b>	WC0825154	---
Sample Date		Client Info		<b>15 May 2024</b>	12 Jun 2023	---
Machine Age	hrs	Client Info		<b>1970</b>	1781	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>14</b>	28	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>75	<b>8</b>	10	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

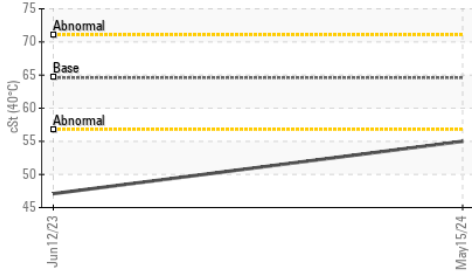
Silicon	ppm	ASTM D5185m	>20	<b>14</b>	21	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>---</b>	▲ 97389	---
Particles >6µm		ASTM D7647	>1300	<b>---</b>	▲ 3326	---
Particles >14µm		ASTM D7647	>160	<b>---</b>	25	---
Particles >21µm		ASTM D7647	>40	<b>---</b>	9	---
Particles >38µm		ASTM D7647	>10	<b>---</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>---</b>	▲ 24/19/12	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

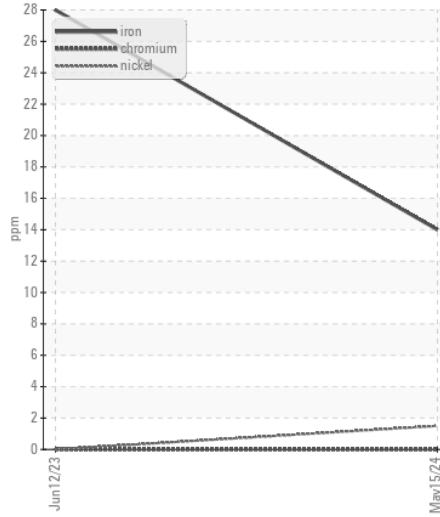
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	---
Boron	ppm	ASTM D5185m		<b>2</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>1</b>	2	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	7	---
Calcium	ppm	ASTM D5185m		<b>66</b>	94	---
Phosphorus	ppm	ASTM D5185m		<b>262</b>	223	---
Zinc	ppm	ASTM D5185m		<b>114</b>	162	---
Sulfur	ppm	ASTM D5185m		<b>3048</b>	3704	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.22</b>	0.21	---
Visc @ 40°C	cSt	ASTM D445	64.6	● <b>55.0</b>	● 47.1	---

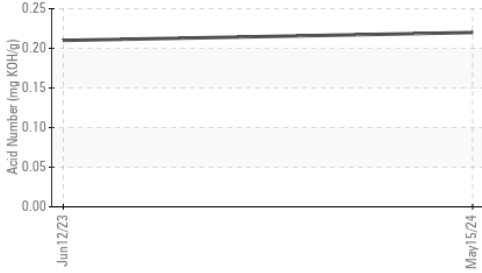
● Viscosity @ 40°C



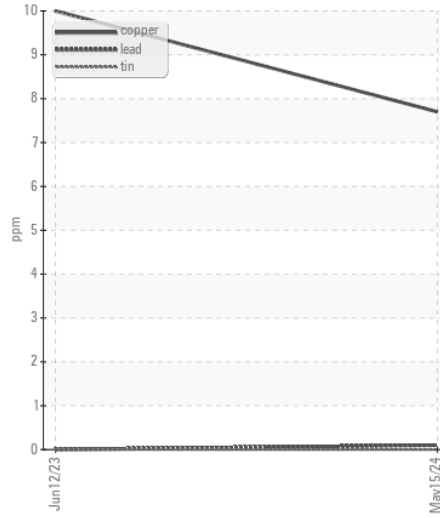
Ferrous Alloys



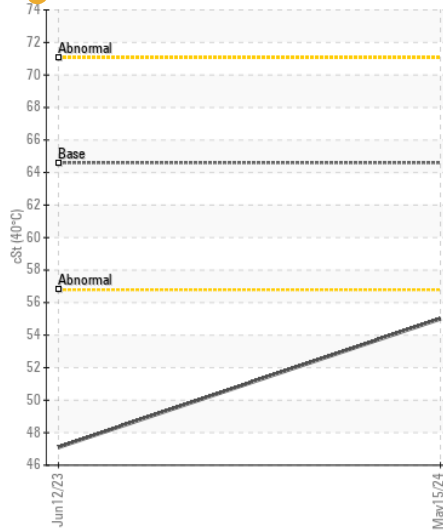
Acid Number



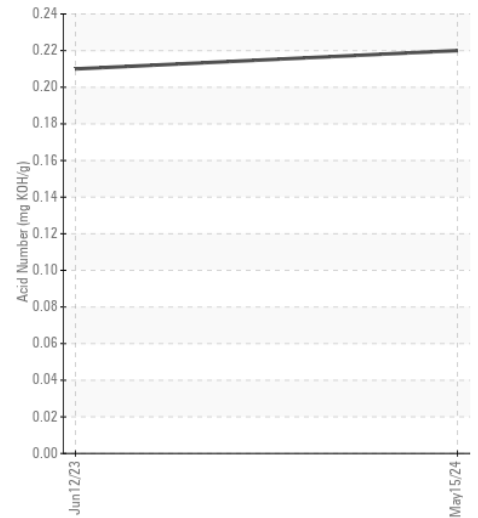
Non-ferrous Metals



● Viscosity @ 40°C



Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0825190 **Received** : 28 Jun 2024  
**Lab Number** : 06223985 **Tested** : 03 Jul 2024  
**Unique Number** : 11102182 **Diagnosed** : 03 Jul 2024 - Jonathan Hester  
**Test Package** : CONST

**KELLER - HOUSTON**  
 15410 HENRY RD  
 HOUSTON, TX  
 US 77060  
 Contact: CHARLIE JOHNS

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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