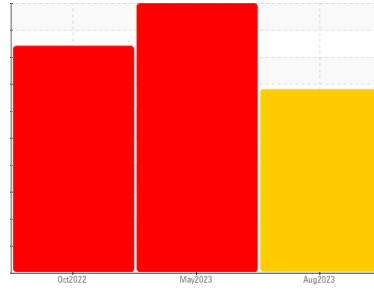




PROBLEM SUMMARY

Area
CONSTRUCTORS, INC
 Machine Id
CATERPILLAR DIESEL. 131718
 Component
Right Auger Pump Drive
 Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

Sample Rating Trend

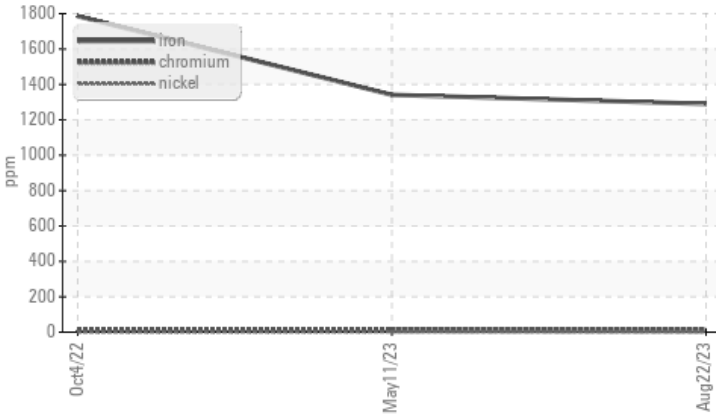


WEAR



COMPONENT CONDITION SUMMARY

Ferrous Alloys



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>200	🔴 1290	🔴 1341	🔴 1786
Chromium	ppm	ASTM D5185m	>10	🟡 13	🟡 15	🟡 15

Customer Id: CONLINNE
 Sample No.: SBP0004630
 Lab Number: 05936424
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

11 May 2023 Diag: Jonathan Hester

WEAR



The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Free water present. There is a trace of moisture present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



04 Oct 2022 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

view report



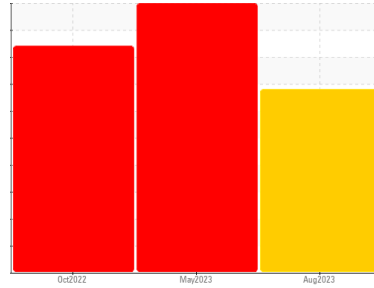


OIL ANALYSIS REPORT



Area
CONSTRUCTORS, INC
 Machine Id
CATERPILLAR DIESEL. 131718
 Component
Right Auger Pump Drive
 Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0004630	SBP0004465	SBP0001379
Sample Date	Client Info		22 Aug 2023	11 May 2023	04 Oct 2022
Machine Age	hrs	Client Info	6408	5840	5349
Oil Age	hrs	Client Info	568	491	537
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	1290	1341	1786
Chromium	ppm	ASTM D5185m >10	13	15	15
Nickel	ppm	ASTM D5185m >10	<1	2	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	2	1	3
Lead	ppm	ASTM D5185m	0	0	0
Copper	ppm	ASTM D5185m	2	2	2
Tin	ppm	ASTM D5185m	<1	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	257	208	193
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	2	2
Manganese	ppm	ASTM D5185m	9	10	12
Magnesium	ppm	ASTM D5185m	3	<1	<1
Calcium	ppm	ASTM D5185m	42	22	39
Phosphorus	ppm	ASTM D5185m	1016	985	1480
Zinc	ppm	ASTM D5185m	32	49	122
Sulfur	ppm	ASTM D5185m	23978	21019	29658

CONTAMINANTS

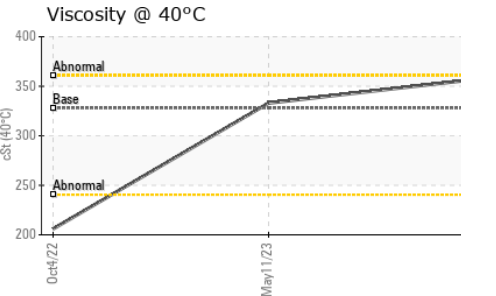
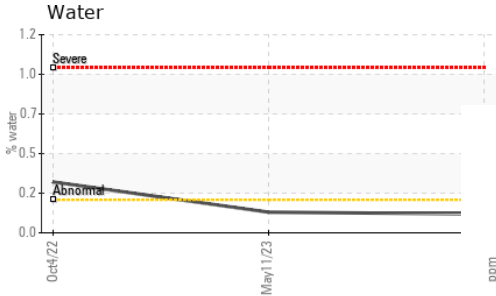
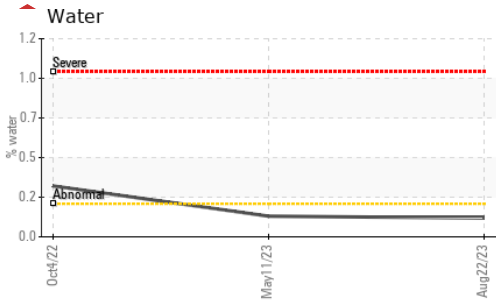
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	16	12	8
Sodium	ppm	ASTM D5185m	<1	<1	0
Potassium	ppm	ASTM D5185m >20	0	<1	1
Water	%	ASTM D6304 >0.2	0.114	0.125	0.308
ppm Water	ppm	ASTM D6304 >2000	1140	1250	3080

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
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	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	0.2%	0.2%	0.2%
Free Water	scalar	*Visual	NEG	1.0	NEG



OIL ANALYSIS REPORT

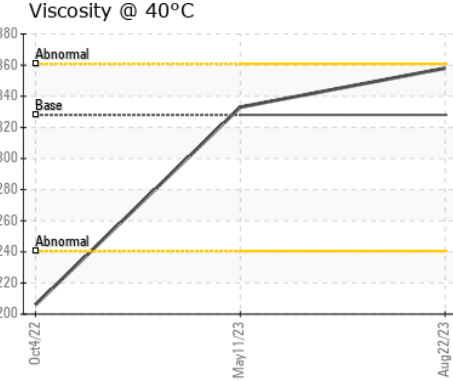
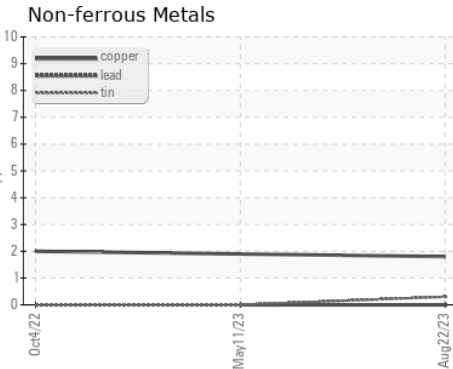
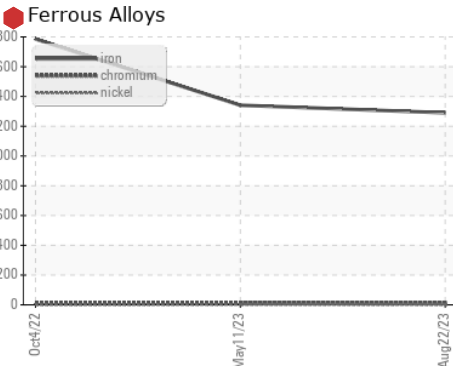


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	328	358	333	206

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004630 **Received** : 28 Aug 2023
Lab Number : 05936424 **Diagnosed** : 29 Aug 2023
Unique Number : 10621695 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: KF)

Constructors Inc. - 603659
 1815 Y Street
 Lincoln, NE
 US 68508
 Contact: Jack Linhart
 jackl@constructorslincoln.com
 T: (402)434-2157
 F:

Certificate L2367
 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)