

OIL ANALYSIS REPORT



ISO

FORD 203

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (20 GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

		Aug2014	Aug2015 Aug2016	Aug2017 Jul2018 Aug2021	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0833690	WC0558777	WCM2293015
Sample Date		Client Info		25 Jan 2024	12 Aug 2021	09 Jul 2018
Machine Age	yrs	Client Info		12	19	6
Oil Age	yrs	Client Info		0	0	6
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	13	12	7
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	<1	2	<1
Copper	ppm	ASTM D5185m	>75	1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	<1	<1
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	2	2	2
Calcium	ppm	ASTM D5185m	200	79	94	88
Phosphorus	ppm	ASTM D5185m	300	353	368	349
Zinc	ppm	ASTM D5185m	370	377	392	353
Sulfur	ppm	ASTM D5185m	2500	1797	1658	2680
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	5	5
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 27862		9930
Particles >6µm		ASTM D7647	>1300	A 3074		981
Particles >14µm		ASTM D7647	>160	58		64
Particles >21µm		ASTM D7647	>40	10		16
Particles >38µm		ASTM D7647	>10	0		0
Deutista 74		10TH 070 47	0	•		0

ASTM D7647 >3

0

ISO 4406 (c) >19/17/14 A 22/19/13

Particles >71µm

Oil Cleanliness

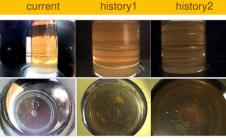
0

20/17/13



OIL ANALYSIS REPORT

White Metal scalar *Visual NONE NONI Yellow Metal scalar *Visual NONE NONI Precipitate scalar *Visual NONE NONI Silt scalar *Visual NONE NONI Silt scalar *Visual NONE NONI Sand/Dirt scalar *Visual NONE NONI Sand/Dirt scalar *Visual NONE NONI Appearance scalar *Visual NORML NORI Odor scalar *Visual NORML NORI Emulsified Water scalar *Visual NORML NORI Emulsified Water scalar *Visual NORML NORI Emulsified Water scalar *Visual NORML NORI Color Scalar *Visual NORML NORI Color Scalar *Visual NORML NORI Emulsified Water scalar *Visual NORML NORI Visc @ 40°C cSt ASTM D445 32 33.8 Visc @ 100°C cSt ASTM D445 5.4 6.5 Viscosity Index (VI) Scale ASTM D2270 102 149	Heid Hullide (KK) inglishing Heimbods C.S.F. Control (KK) inglishing Heimbods C.S.F. (KK) inglishin	Add Ndmber (NN) Ingritering Normbooks 0.57 0.57 Visual None None None Precipitate scalar Visual None None Sitt scalar Visual None None Sand/Dirt scalar Visual None None Appearance scalar Visual None None Visc @ 40°C cSt ASTM D445 32 33.8 Visc @ 40°C cSt ASTM D445 5.4 6.5 Viscosity Index (VI) Scale ASTM D445 5.4 6.5 Viscosity Index (VI) Scale ASTM D2270 102 149				T ²⁶	FLUID DEGRADA	TION	method	limit/base	curr
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Color Entry Bottom	Color Color LU01 Bry LU01 Bry Bottom	Color Co					SAMPLE IMAGES		method	limit/base	cur
	Aug10/17 + Jul9/18 + Jul9/18 + Jul9/18 + Jul9/18 + Jul9/18 +	Aug ^{29,16}					Bottom				
	00°C	Aug 29/16		10/17	Jul9/18 Aua12/21	Jan 25/24	BOILOIN				l
			Aug17/15 - Aug29/16 -	Au							
			100°C								
10/17 +	29/16	40°C	100°C		- 1/2/1 	25/24					
Aug10/17 +	Aug10/17 Jul9/18 Jan25/24		@ 100°C		Jul9/18	Jan25/24					
Aug10/17 Jul9/18			100°C		Jul9/18	Jan 25/24					
Aug 10/17			@ 100°C		Jul8/18	Jan 25/24					
Aug 10/17			Aug29/16		Jul9/18	Jan25/24					



history1

history1

0.422

NONE

NONE

NONE

NONE

▲ MODER

NONE

NORML

NORML

history1

NEG

NEG

33.2

6.8

169

history2

history2

0.487

NONE

NONE

NONE

NONE

NONE

NORML

NEG

NEG

34.00

NORML

history2

NONE

2014 + 1/15	- 11/0	2/21-								
Aug1 Aug1	Aug1 Jul	Aug1 Jan2								
	à	Laboratory	: WearCheck USA - 50	1 Madison Ave.,	Cary, NC 27513	HIAB USA - ROCHESTER				
	ANAB	Sample No.	: WC0833690	Received	: 23 Feb 2024	1005 CHILI AVE STE 1				
	ACCREDITED	Lab Number	: 06099127	Tested	: 26 Feb 2024	ROCHESTER, NY				
	TESTING LABORATORY	Unique Number	: 10897357	Diagnosed	: 26 Feb 2024 - Wes Davis	US 14611-2807				
	Certificate L2367	Test Package	: MOB 2 (Additional To	ests: KV100, VI)		Contact: RON SCALERA				
	To discuss this sample report, contact Customer Service at 1-800-237-1369. ron.scalera@hia									
	A 20 14 20 17 * - 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: RON SCALERA - CARROC