

OIL ANALYSIS REPORT

Sample Rating Trend



Area DICK LAVY DICK LAVY 4948

Front Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

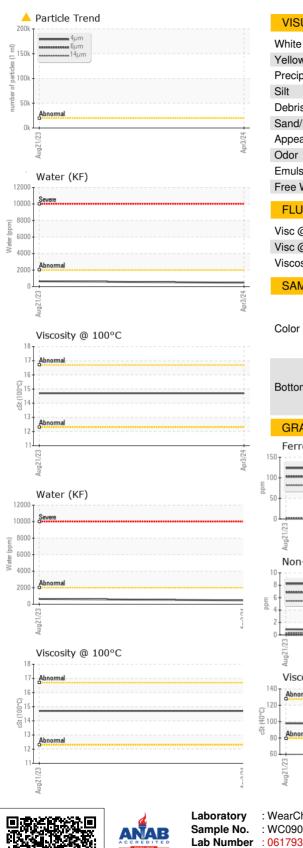
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900738	WC0853902	
Sample Date		Client Info		03 Apr 2024	21 Aug 2023	
Machine Age	mls	Client Info		59456	17343	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	119	102	
Chromium	ppm	ASTM D5185m	>10	<1	1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>25	1	<1	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m		<1	<1	
Tin	ppm	ASTM D5185m		<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		170	164	
Barium	ppm	ASTM D5185m		2	<1	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		12	13	
Magnesium	ppm	ASTM D5185m		6 14	<1 14	
Calcium	ppm	ASTM D5185m				
Phosphorus	ppm	ASTM D5185m		1144	1135	
Zinc	ppm	ASTM D5185m		14	5	
Sulfur	ppm	ASTM D5185m		29901	24269	
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	18	20	
Sodium	ppm	ASTM D5185m		4	4	
Potassium	ppm	ASTM D5185m	>20	3	2	
Water	%	ASTM D6304	>.2	0.046	0.063	
ppm Water	ppm	ASTM D6304	>2000	469	637.7	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 185347		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	169		
Particles >21µm		ASTM D7647	>160	20		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4 25/22/15		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.32	3.27	
	ing iton/g	AUTHI DUU45		5.52	0.27	



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		method		current	history1	history2
				-		
			-			
				-		
			>.2			
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		97.4	98.0	
Visc @ 100°C	cSt	ASTM D445		14.7	14.7	
Viscosity Index (VI)	Scale	ASTM D2270		157	156	
			limit/base	current		history2
		mealou	-infit/base	current	Thistory P	mstory2
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys				Particle Cour	nt	
150iron			491,520			T ²⁶
100 - chromium			122,880			-24
B 50 -			30,720	Abnormal		-22
-			8/24 [m])			
Aug21			Judy 1,920		•	-18
Non-ferrous Meta	s		·달 480		1	-20 -18 -16 -16
¹⁰			d jo 120			14
8 copper			a 120	Ĩ		Ť ¹⁴
a 4			≅ 30	0-		-12
2			8	3-		-10
			24		1	
Ig21/2			Apr3//			
			0		14µ 21µ	38µ 71µ
140			G.	Acid Number	r	
Abnormal			HOX 0	I <u>— — — — — — — — — — — — — — — — — — —</u>		
(20) 100			B 3.0			
Abnormal						
			21.0			
80 -						
Aug21/23			Apr3/24	Aug21/23		
	Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar Free Water scalar Free Water scalar Visc @ 40°C cSt Visc @ 100°C cSt Viscosity Index (VI) Scale SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Storm South Storm Storm South	Yellow Metal scalar *Visual Precipitate scalar *Visual Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Odor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual Visc @ 40°C cSt ASTM D445 Visc @ 100°C cSt ASTM D445 Visc @ 100°C cSt ASTM D445 Viscosity Index (VI) Scale ASTM D2270 SAMPLE IMAGES method Color GRAPHS Ferrous Alloys	Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Silt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Odor scalar *Visual NORML Codor scalar *Visual NORML Emulsified Water scalar *Visual >.2 Free Water scalar *Visual >.2 Feree Water scalar *Visual >.2 Visc @ 100°C cSt ASTM D445 S Viscosity Index (VI) Scale ASTM D2270 SAMPLE IMAGES Color Imit/base Imit/base Imit/base Color Imit/base Imit/base Imit/base Viscosity @ A0°C Imit/base Imit/base Imit/base Imit for the optime o	Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Sitt scalar *Visual NONE MODER Debris scalar *Visual NONE NONE Appearance scalar *Visual NOR NOR Appearance scalar *Visual NOR NOR Codor scalar *Visual NOR NOR Emulsified Water scalar *Visual NORML NORML Codor scalar *Visual NOR NORML NORML Emulsified Water scalar *Visual >.2 NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 14.7 Visc @ 100°C cSt ASTM D445 14.7 Visc @ 100°C cSt ASTM D2270 157 SAMPLE IMAGES method limit/base current 0a coope coope coope coope 0a	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 MODER Sand/Dirit scalar *Visual NOR NONE NONE NORE Appearance scalar *Visual NORML NORML NORML NORML Cdor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML Visc @ 40°C cSt ASTM D445 97.4 98.0 Visc @ 100°C Stale ASTM D445 14.7 14.7 Visc @ 100°C cSt ASTM D445 157 156 SAMPLE IMAGES method Imit/base current history1 Gold off off off off off off off 0

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)

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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Certificate L2367

Contact/Location: GIANNA CREDAROLI - BASTARHD

Т:

F:

Contact: GIANNA CREDAROLI

gianna.credaroli@basf.com