

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area DICK LAVY Machine Id DICK LAVY 4965

Component Rear Differential Fluid GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm. Please specify the component make and model

with your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

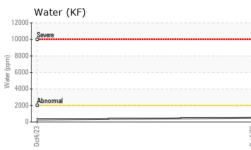
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

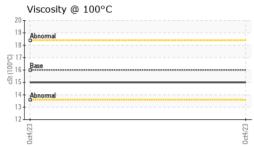
			0ct2023	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843139	WC0843138	
Sample Date		Client Info		04 Oct 2023	04 Oct 2023	
Machine Age	mls	Client Info		479	479	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	0	18	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>25	0	0	
_ead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m		0	0	
Tin	ppm		>100	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ррш		1 //	-	-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	264	167	
Barium	ppm	ASTM D5185m	200	0	0	
Volybdenum	ppm	ASTM D5185m	12	0	0	
Manganese	ppm	ASTM D5185m		0	1	
Magnesium	ppm	ASTM D5185m	12	<1	<1	
Calcium	ppm	ASTM D5185m	150	1	15	
Phosphorus	ppm	ASTM D5185m	1650	1423	1085	
Zinc	ppm	ASTM D5185m	125	0	0	
Sulfur	ppm	ASTM D5185m	22500	24799	24088	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<1	10	
Sodium	ppm	ASTM D5185m		0	1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304	>.2	0.051	0.029	
opm Water	ppm	ASTM D6304	>2000	513.2	291.0	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	7044	▲ 80029	
Particles >6µm		ASTM D7647	>5000	1723	4 9113	
Particles >14µm		ASTM D7647	>640	112	70	
Particles >21µm		ASTM D7647	>160	29	12	
Particles >38µm		ASTM D7647	>40	2	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/18/14	4 /20/13	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.26	3 .53	
(-)	0 - 0			-	*	

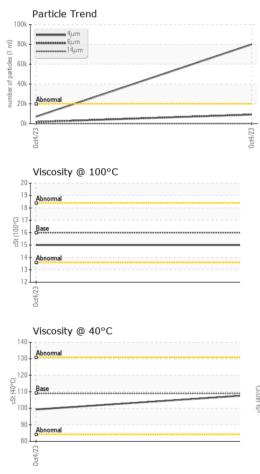
Contact/Location: GIANNA CREDAROLI - BASTARHD



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		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	*Visual	NONE	NONE	NONE	
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Precipitate	scalar	*Visual	NONE	NONE	NONE	
		Silt	scalar	*Visual	NONE	NONE	NONE	
		Debris	scalar	*Visual	NONE	NONE	NONE	
	_	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	0ct4/23 -	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Oct	Odor	scalar	*Visual	NORML	NORML	NORML	
		Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
		Free Water	scalar	*Visual		NEG	NEG	
					11 1.0			
		FLUID PROPERT		method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D445	109	108	99.3	
		Visc @ 100°C	cSt	ASTM D445	16.0	15.0	15.0	
		Viscosity Index (VI)	Scale	ASTM D2270	157	144	158	
		SAMPLE IMAGES	6	method	limit/base	current	history1	history2
	0ct4/23	Color				FAXE Provide State	100 4965 010 4965 010 4965 010 4965	no image
		Bottom					\bigcirc	no image
		GRAPHS						
	23	Ferrous Alloys			491,52	Particle Count		т2
	0ct4/23	iron		_	431,52	Severe		I ²
		15 - chromium			122,88	10		-2
	Juga	10-			30.72	0 Abnormal		-2
		5-			30,72	0 Abnormal		
		5-			7.65		•	
		5-			7.65		•	
		0ct4/23			7.65		•	
		Non-ferrous Metals	5		7.65			
		0ct4/23	s		7.65			
		Non-ferrous Metals	5		(mup and the second sec			
		Non-ferrous Metals	5		(mup and the second sec			-2 -1 -1 -1 -1 +1
		Non-ferrous Metals	5		(mup and the second sec			-2 -1 -1 -1 -1 +1
		Non-ferrous Metals	5		7.61 EZZ/HO 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.92			-2 -11 -11 -11 -11 -11
		Non-ferrous Metals	5		(mup and the second sec			
		Non-ferrous Metals	5		7.61 EZZ/HO 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.92		14μ 21μ	-2 -11 -11 -11 -11 -11
	- 444	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
	- wo	Non-ferrous Metals	5		0ct4/23	Acid Number	14μ 21μ	
Laborator Sample No Lab Numb		Non-ferrous Metals	01 Madia Received Diagnos	d : 20 M ed : 21 M	(04) EZZ/PDO (04) EZZ	Acid Number	BASF - GIANNA 500 WHIT	
Sample No	(J-OF)183 A A A A A A A A A A A A A A A A A A A	Non-ferrous Metals	01 Madia Received Diagnos Diagnost	d : 20 f ed : 21 f tician : Wes	(14) (14)	Acid Number	BASF - GIANNA 500 WHIT	4 CREDARO TE PLAINS F PRYTOWN, N
Sample No Lab Numb Unique Nun ficate L2367 Test Packa	(2.09) R3	Non-ferrous Metals	01 Madi Receiver Diagnos Diagnost	d : 20 f ed : 21 f tician : Wes -, KV100, Prt	(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	Acid Number	BASF - GIANNA 500 WHIT TAR Contact: GIANNA	A CREDARC TE PLAINS F RYTOWN, N US 105 A CREDARC
Sample No Lab Numb Unique Nun	(J-OF)183 Y o. per nage <i>oport, c</i>	Non-ferrous Metals	01 Madia Receiver Diagnos Diagnos Fests: KF ce at 1-8	d : 20 M ed : 21 M tician : Wes F, KV100, Prt 800-237-1369	(4) EZZ+PPO (4) (4) (4) (4) (4) (4) (4) (4)	Acid Number	BASF - GIANNA 500 WHIT TAR	а СREDARO ТЕ PLAINS F RYTOWN, N US 1050 A CREDARO