

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

BD SHOP **REFERENCE OIL GOLD 4**

Component New (Unused) Oil TEST OIL GOLD 4 (--- GAL)

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. (Customer Sample Comment: New oil reference)

Wear

{not applicable}

Contamination

There is no indication of any contamination in the new (unused) oil.

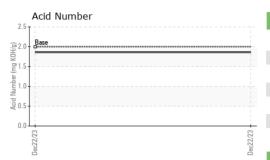
Fluid Condition

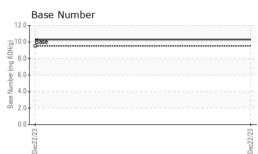
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

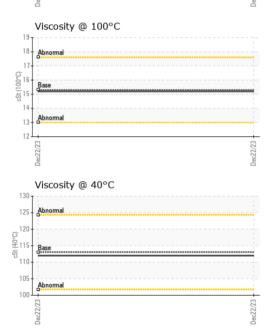
				Dec2023		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888927		
Sample Date		Client Info		22 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>5	2		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>5	2		
Tin	ppm	ASTM D5185(m)	>5	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	60	58		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	950	1010		
Calcium	ppm	ASTM D5185(m)		1080		
Phosphorus	ppm	ASTM D5185(m)	1100	1080		
Zinc	ppm	ASTM D5185(m)	1150	1200		
Sulfur	ppm	ASTM D5185(m)	2600	2840		
Lithium	ppm	ASTM D5185(m)	2000	<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		4.2		
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*		4.2		
Guilduon	וווווו	A01WI D7410		17.5		



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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	22802		
Particles >6µm		ASTM D7647	>1300	5350		
Particles >14µm		ASTM D7647	>160	163		
Particles >21µm		ASTM D7647	>40	42		
Particles >38µm		ASTM D7647	>10	3		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/20/15		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		12.8		
Acid Number (AN)	mg KOH/g	ASTM D974*	2.0	1.86		
Base Number (BN)	mg KOH/g	ASTM D2896*	9.5	10.30		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	113	112		
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	15.2		
Viscosity Index (VI)	Scale	ASTM D2270*	141	141		
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

