

OIL ANALYSIS REPORT

[20567321] Machine Id ROYAL PURPLE SYNDRAULIC 32

Component New (Unused) Oil Fluid

ROYAL PURPLE SYNDRAULIC 32 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842632		
Sample Date		Client Info		09 Aug 2023		
Machine Age	mths	Client Info		0		
Oil Age	mths	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	0		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>5	<1		
Lead	ppm	ASTM D5185m	>5	0		
Copper	ppm	ASTM D5185m	>5	0		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		55		
Phosphorus	ppm	ASTM D5185m		314		
Zinc	ppm	ASTM D5185m		396		
Sulfur	ppm	ASTM D5185m		14954		
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2007		
Particles >6µm		ASTM D7647	>1300	394		
Particles >14µm		ASTM D7647	>160	21		
Particles >21µm		ASTM D7647		5		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41		



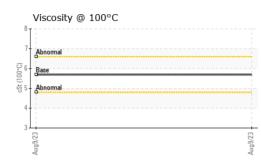
Sample Rating Trend



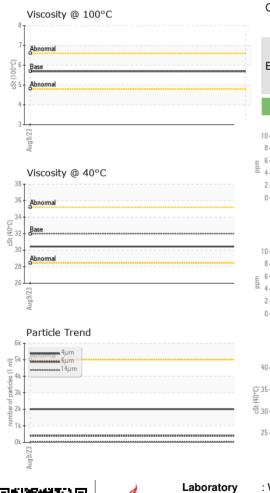
NORMAL



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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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.0	30.44		
Visc @ 100°C	cSt	ASTM D445	5.7	5.69		
Viscosity Index (VI)	Scale	ASTM D2270	116	129		
SAMPLE IMAGE		method	limit/base	current	history1	history2
 Color					no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloys			491 520	Particle Count	;	
Ferrous Alloys			491,520	l l		
Ferrous Alloys			491,520	l l		
Ferrous Alloys				Severe		
Ferrous Alloys			122,880 30,720	Severe		
Ferrous Alloys			122,880 30,720	Severe		
Ferrous Alloys			122,880 30,720	Severe		
Ferrous Alloys	ls		122,880 30,720	Severe Abnormal		
Ferrous Alloys	ls		122,880 30,720	Abnormal		
Ferrous Alloys	ls		122.880 30.720 The first state	Severe Abnormal		
Non-ferrous Meta	ls		122,880 30,720 122,880 30,720 12,880 12,890 12,9000 12,9000 12,9000 12,9000 12,9000 12,9000 10,9000 10,9000 10,900	Severe Abnormal		
Ferrous Alloys	ls		122.880 30.720 The first state	Abnormal		
Ferrous Alloys	ls		122.880 30.720 The first state	Abnormal		
Ferrous Alloys	lls		122.880 30.720 The first state	Abnormal		
Ferrous Alloys	ls		122,880 30,720 The first	Abnormal	14μ 21μ	
Ferrous Alloys	ls		122,880 30,720 The second seco	Abnormal		
Ferrous Alloys	ls		122,880 30,720 The second seco	Abnormal		
Ferrous Alloys	ls		122,880 30,720 The second seco	Abnormal		
Ferrous Alloys	ls		122,880 30,720 The second seco	Abnormal		
Ferrous Alloys	ls		122,880 30,720 The second seco	Abnormal		
Ferrous Alloys	ls		122.880 30.720 The first state	Abnormal		

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