

OIL ANALYSIS REPORT



Machine Id

VALVOLINE BLACK

Component Transmission Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

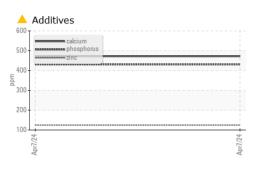
Fluid Condition

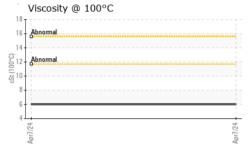
The AN level is at the top-end of the recommended limit. This plus the additive levels indicates the addition of a different brand, or type of oil.

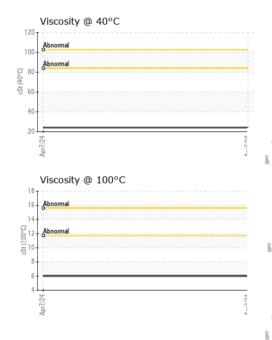
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06140686		
Sample Date		Client Info		07 Apr 2024		
Machine Age		Client Info		0		
Oil Age		Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	17		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>50	9		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		A 316		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		A 81		
Calcium	ppm	ASTM D5185m		472		
Phosphorus	ppm	ASTM D5185m		4 31		
Zinc	ppm	ASTM D5185m		🔺 125		
Sulfur	ppm	ASTM D5185m		1214		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.43		



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White M Yellow Precipit Silt Debris Sand/D Appear							
Precipit Silt Debris	Metal	scalar	*Visual	NONE	NONE		
Silt Debris		scalar	*Visual	NONE	NONE		
Debris	ate	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NONE	NONE		
Sand/D		scalar	*Visual	NONE	NONE		
	irt	scalar	*Visual	NONE	NONE		
Appear	ance	scalar	*Visual	NORML	NORML		
Odor		scalar	*Visual	NORML	NORML		
Emulsif	ied Water	scalar	*Visual	>0.1	NEG		
Free W	ater	scalar	*Visual		NEG		
FLUI	D PROPERT	IES	method	limit/base	current	history1	history
Visc @	40°C	cSt	ASTM D445		24.1		
Visc @	100°C	cSt	ASTM D445		6.00		
Viscosi	ty Index (VI)	Scale	ASTM D2270		212		
SAM		3	method	limit/base	current	history1	history
0, 111			mothod		ounoin	inotory i	
Color					no image	no image	no image
Bottom					no image	no image	no image
					0	0	
GRA	PHS						
GRAI Iron (Lead (ppm)		
Iron (200	Severe		
Iron (200 <u></u> 100	Severe		
Iron (통 100	Severe Abnormal		
Iron (Severe		
Hon (Apr7/24	Abornal	pm)	
Iron (ppm)			400100 W100	Abornal Abornal BUCAY Chromium (p)	pm)	
Iron (ppm)			Apr7/24	Abornal Abornal BUCAY Chromium (p)	pm)	
Iron (ppm)			90 100 100 100	Chromium (p)	pm)	
Iron (ppm)			400100 W100	Severe Abnormal گ	pm)	
	ppm)			90 100 100 100	Chromium (p)	pm)	
Iron (Severe Based Alumi	ppm) num (ppm)			44 100 100 100 100 100 100 100 100 100 1	Chromium (p)	pm)	
Iron (ppm) num (ppm)			App7124	Chromium (p)	pm)	
Alumi	ppm) num (ppm)			44 100 100 100 100 100 100 100 100 100 1	Silicon (ppm)	pm)	
Liron (ppm) num (ppm) er (ppm)			401/24 401/24	Chromium (p)	pm)	
Iron (Severe Reliary Alumi Severe Reliary Alumi Severe Reliary Copper Severe Reliary Viscos	ppm) num (ppm)			401/24 401/24	Chromium (p)	pm)	
Iron (ppm) num (ppm) er (ppm)			4 100 100 100 100 100 100 100 100 100 10	Chromium (p)	pm)	
Alumi	ppm) num (ppm) er (ppm)			April 24 April 24 Apr	Silicon (ppm)	pm)	

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)

Certificate L2367

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