

## Machine Id VALIANT THRUST 68 (WATER BOTTLE) Component Oil Fluid {not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TO70000146		
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Date		Client Info		08 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	~5	<b>A</b> 39		
	Chromium	ppm	ASTM D5185m		2		
Bearing and/or bushing wear is indicated.	Nickel	ppm	ASTM D5185m		▲ 6		
	Titanium	ppm	ASTM D5185m	20	0		
	Silver	ppm	ASTM D5185m	<u>\</u> 5	0		
	Aluminum	ppm	ASTM D5185m		▲ 6		
	Lead	ppm	ASTM D5185m		<b>1</b> 0		
	Copper	ppm	ASTM D5185m		315		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	20	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Tellow Metal	Scalai	visuai	NONL			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	1		
	Potassium	ppm	ASTM D5185m	>20	0		
There is a high amount of particulates present in the oil.	Water	%	ASTM D6304		0.023		
	ppm Water	ppm	ASTM D6304		239		
	Particles >4µm		ASTM D7647	>5000	<b>A</b> 304803		
	Particles >6µm		ASTM D7647	>1300	<b>A</b> 250289		
	Particles >14µm		ASTM D7647	>160	<b>49099</b>		
	Particles >21µm		ASTM D7647	>40	<b>6</b> 5331		
	Particles >38µm		ASTM D7647	>10	2		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 25/25/23		
	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		
	Sodium		ASTM D5185m		.1		
LOID CONDITION	Boron	ppm	ASTM D5185m		<1 0		
The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m				
		ppm	ASTM D5185m ASTM D5185m		<1 6		
	Magnesium	ppm			6		
	Calcium	ppm	ASTM D5185m		5		
	Phosphorus	ppm	ASTM D5185m		24		
	Zinc	ppm	ASTM D5185m		201		
	Sulfur	ppm	ASTM D5185m		923		
	Acid Number (AN)		ASTM D8045		0.53		
	Visc @ 40°C	cSt	ASTM D445		67.8		

Visc @ 100°C cSt

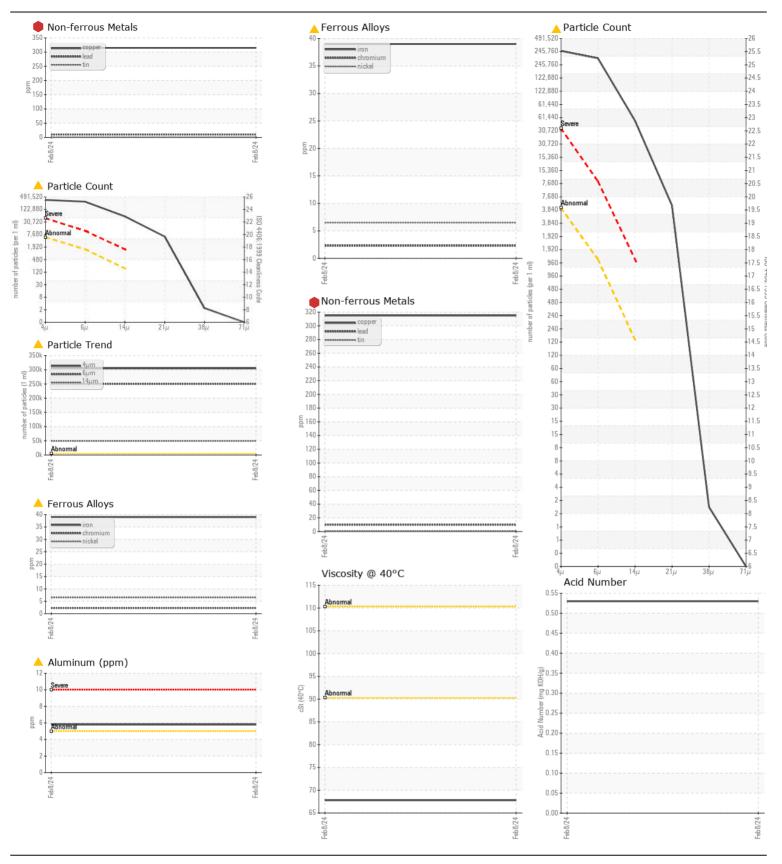
Viscosity Index (VI) Scale ASTM D2270

ASTM D445

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10.8

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TULCO OILS INC (007-INTERNATIONAL DIVISION) Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 5240 EAST PINE Sample No. : TO70000146 Received : 09 Feb 2024 Lab Number : 06084816 Tested : 12 Feb 2024 TULSA, OK : 12 Feb 2024 - Doug Bogart US 74115 Unique Number : 10872261 Diagnosed Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, VI) Contact: JIM WESTOVER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jimwestover@tulco.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (918)526-3035 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (918)834-1263

Contact/Location: JIM WESTOVER - TULTUL07