

Machine Id 8310451 Component Diesel Engine Fluid VALVOLINE 15W40 (--- GAL)

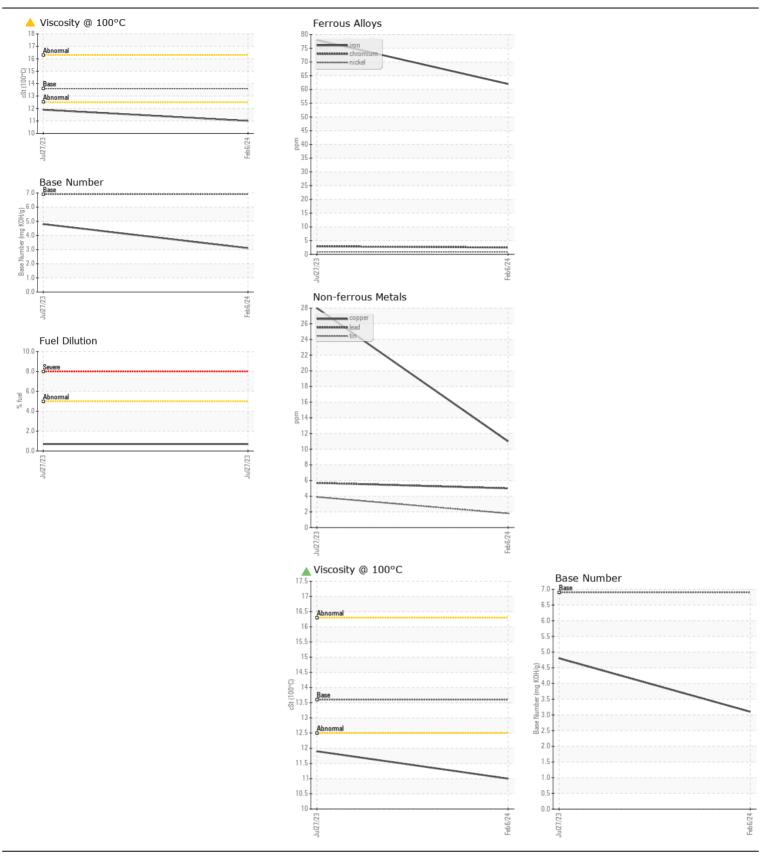
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		IL0035057	IL05934637	
	Sample Date		Client Info		06 Feb 2024	27 Jul 2023	
	Machine Age	mls	Client Info		115521	56408	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ATTENTION	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	62	78	
	Chromium	ppm	ASTM D5185m	>20	2	3	
	Nickel	ppm	ASTM D5185m		- <1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m		9	34	
	Lead	ppm	ASTM D5185m		5	6	
	Copper	ppm	ASTM D5185m		11	28	
	Tin	ppm	ASTM D5185m		2	4	
	Vanadium	ppm	ASTM D5185m	1.0	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Cilicon			. 05	10	40	
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	42	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		29	101	
	Fuel	%	ASTM D3524		<1.0	0.7	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	11.5	
	Sulfation	Abs/.1mm	*ASTM D7415		26.6	23.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML	NORML	
	Emulsified Water	scalar scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	7	
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		15	18	
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		26	0	
	Molybdenum	ppm	ASTM D5185m		99	69	
	Manganese	ppm	ASTM D5185m		<1	5	
	Magnesium	ppm	ASTM D5185m		573	475	
	Calcium	ppm	ASTM D5185m		1319	1960	
	Phosphorus	ppm	ASTM D5185m		855	983	
	Zinc	ppm			1037	1294	
	Sulfur	ppm	ASTM D5185m	2624	2489	3181	
	Oxidation	Abs/.1mm	*ASTM D7414		25.7	22.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	6.9	3.1	4.8	
	1/1 0 10000	0.	AOTH DAAF	10.0			

Visc @ 100°C cSt

ASTM D445 13.6

11.9

11.0



TAMPA IDEALEASE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : IL0035057 Received : 09 Feb 2024 5951 ORIENT ROAD Lab Number : 06084577 Tested : 12 Feb 2024 TAMPA, FL Unique Number : 10872022 : 12 Feb 2024 - Don Baldridge US 33610-9565 Diagnosed Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: Russ Cook Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. russcook@idealease.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)626-9285 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (844)270-1356